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National Forest Fire Report 1991

1991 National Forest Fire Report

United States Department of Agriculture
Forest Service

State and Private Forestry
Fire and Aviation Management Staff

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National Forest Fire Report 1991

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1991 FIRE WEATHER AND SEASONAL SEVERITY

Fall of 1990 once again saw the development of a ridge of high pressure over the Western United States. Eastern Pacific storm systems typically rode northeastward bringing some precipitation to portions of the Pacific Northwest and northern Rockies, then dropped southeast into the midsection of the country. The subtropical jet stream was also active around the bottom portion of the ridge of high pressure and brought unusual amounts of precipitation to portions of Arizona and most of New Mexico. This pattern was very persistent through the winter months.

It was evident by the end of February 1991 that California, Southern Oregon and the interior of the West were severely deficient in snowpack and total precipitation for the water year. At this point it appeared that another early and severe fire season would occur.

March was the beginning of a turnaround in the weather pattern with the storm track readjusting. Eastern Pacific storm systems penetrated the Northwestern States and tracked southeastward, and in a few cases, developed just off the California coast. This wet period lasted through the remainder of the spring. What could have been a very early fire season was tempered by this rainfall.

Alaska for most of the winter and spring experienced above normal rainfall and snowfall. So much snow fell that during breakup in the spring, flooding occurred through the interior of Alaska. Late spring and early summer turned warm quickly and fire activity increased correspondingly.

The remainder of the United States during the late winter and spring of 1991 remained quite wet. Areas of the upper Midwest did dry out in the spring but the Southeast continued in a wet regime.

As spring turned to summer high pressure situated itself near the Rocky Mountains. This kept a fairly persistent weak trough of low pressure along the west coast. This trough had the effect of keeping marine layer well inland over the west coast states, as well as creating an unstable atmosphere for thunderstorms to develop.

Fortunately this thunderstorm pattern did not follow the norm for most summers in the West as most were associated with beneficial rains. Lightning fire starts certainly did occur, but with higher humidities and some precipitation, initial attack forces were able to keep most fires small.

An indication of how severe the summer fire season could have been, given the right set of meteorological circumstances, took place in late September and October. With a strong ridge of high pressure along or just off the West Coast, above normal temperatures, low relative humidities and periodic high wind events replaced the pattern of spring and summer.

The result was widespread destructive fire activity through the Pacific Northwest and California. This was short lived, however, as the high pressure pattern broke down allowing wet Pacific storm systems to traverse the West.

Fire activity in the Appalachians picked up in late October and November. West Virginia, Kentucky, and Tennessee were particularly hard hit. Rainfall and cooler temperatures during the first part of November helped rein in the fires.

1991 WILDFIRE ACTIVITY SUMMARY

"The Year of Initial Attack"

In the month of February the fire management community nationwide was analyzing and making preparation for the 1991 fire season. There was hard evidence that extreme drought conditions remained in California, Eastern Oregon, Central Washington, Southwest Colorado, Southern North Dakota, and Northwest Minnesota. Snowpack came late and was near normal to above normal in many portions of the West after several March storms. Alaska had a near record snowpack. However, fuel moisture measurements in 1,000 hr. fuels indicated that fuels in many areas of the West did not recover from the previous years' drought. Live fuels showed a stress point normally found in July. Coupled with the environmental conditions was the fact that contingency support that normally came from the military for the past five years could not be planned on as a result of operation "Desert Storm."

The following official recommendations were published and became the basis for the build-up of suppression forces in anticipation of another predicted severe fire season:

(1) The only way to cope with wildfires in drought years is with rapid and effective initial attack. Never let a fire get large.

(2) Implement and strengthen cooperative and coordinating efforts at all levels. The need to marshal all of the resources in an area will contribute to success.

(3) Accelerate the programs that contribute to preventing and detecting fires. Consider early activation of dispatch centers. Provide necessary aircraft and equipment inspections early in the season.

(4) Increase vigilance and management attention by all levels of management to potentially emerging situations. With fewer resources and longer time frames for delivery, manage what you have well. Consider alternatives and substitutions that may do the work as well.

As a result of these adopted strategies, field organizations prepared accordingly. Extra crews were trained and placed in strategic locations. Early smokejumper training took place and additional numbers were hired. Overhead training was accelerated and large numbers of the fire community became available at an earlier time frame. Aircraft and equipment was inspected ahead of schedule and locations of greatest need identified. Active prevention and public awareness programs were increased. Severity funding by each agency was coordinated and stressed at all levels. Everyone was ready for a tough fire season with augmented forces and strategies in place.

Abundant precipitation occurred throughout this period in the eastern section of the country, especially portions of the South. The Southern Area's spring fire season was the least severe season in the past 10 years. Acres burned were about 20% of the 5 year average.

By March first, the snowpack in the West was very alarming. In the Sierra-Nevadas the snowpack was 15% of normal, in Oregon 36% of normal, and in Idaho 62% of normal. By mid-March the weather pattern changed. Storm systems began moving into the West on a regular basis and provided much-needed rain and snow.

In early April, the first major fire activity of 1991 that required commitment of Type I and Type II teams occurred on the Black Hills N.F. of South Dakota and the Custer N.F. of Montana. Air tankers were activated early. This early activity was short lived as the normal spring showers arrived throughout the West. Periodic storminess occurred throughout the month of April in the Western United States. By late April "green up" was occurring in the South, bringing their spring season to a close.

On May 23, a "Limited" fire on the Kenai Peninsula of Alaska burned more than 8,000 acres before being controlled. A Type I team was committed. The month of May also produced the normal start of fire season in the Southwest. May continued the trend established in April, with storm systems moving through the Pacific Northwest, Northern Rockies, and Great Basin. These storm systems alleviated drought conditions in many areas along with delaying the onset of fire season in the West. May did not go without disaster however as a Northern Rockies smokejumper was killed making a training jump when he failed to successfully deploy his main or reserve parachute. A USDA Forest Service lead plane on an administrative flight crashed near Prineville, Oregon. There were no injuries associated with this crash.

The western fire season was delayed by an unusually wet spring. Successful initial attack activity continued throughout the Southwest as it was experiencing moderate fire activity from lightning storms that were accompanied by some moisture. Alaska began to warm up as a series of lightning storms triggered extensive initial-attack smokejumper activity and some Type II team commitment. By the end of the month, 225 smokejumpers were stationed throughout the State along with considerable overhead, crew, aircraft, and equipment support. On June 21, a USDA Forest Service lead plane working on the Ziplock fire crashed on the Cibola N.F., killing the pilot. On June 24, some 2,000 lightning strikes ignited 70 fires from Galena, Alaska, to the Canadian border. A fire on the Gila National Forest reached 300 acres. On the 26th, 43 new fires were reported in Alaska. Fire B176 in the Tanana Zone, a State of Alaska Fire, was at 15,972 acres, and the Lava Fire near Albuquerque required a Class II Team. On the 28th of June, 25 new starts occurred, and Alaska reported 9 fires burning for 14,775 acres under a modified suppression strategy, and 28 fires burning for 42,391 acres burning under a limited strategy.

The fact that so few fires reached significant size is attributed to the effectiveness of initial attack forces coupled with moisture associated with lightning activity. During this same period of time there was considerable action in Canada, with areas of difficulty centered in the Yukon Territory and in Quebec where two large fires, the Bersimis, 475,000 acres, and Forrestville, 216,688, acres raged.

The successful initial attack trend continued during the month of July. Lightning activity was greater than that experienced during the 1990 season, however, moisture associated with most lightning storms complemented initial attack forces throughout the West. By July 5, a 600 acre fire in Washington, the Rock Creek Fire required a Type II team. By July 9, Alaska began releasing resources. The Pelican Fire in Yellowstone gained a lot of notoriety for a 220 acre fire. The Kwis-Kwis Fire on the Challis N.F. at 150 acres, was being suppressed using a confine/contain strategy. Fires were becoming more widely scattered throughout the West, with daily averages reaching 170 fires. Initial attack was still highly successful. By mid July there were 75 fires for 435,056 acres burning in Alaska under something less that full suppression strategy. Scattered storms ignited fires in Idaho, Oregon, and California. National Forests in Northern California were taking suppression action on over 400 fires. On July 18, the Thompson Creek Fire on the Gallatin N.F. required a Type I Team and grew to over 7,700 acres before control. Fifty three crews, 23 of which were Type I, 16 helicopters, 30 engines, and 386 overhead plus other miscellaneous support took part in this massive suppression effort. There were also fires in western Utah and eastern Nevada in the 2,000 acre range. On July 24, of the 403 fire starts, only one exceeded 100 acres. At July's conclusion Alaska had 52 fires still burning for 915,567 acres under "limited suppression".

Southern California experienced unseasonably cool weather and above average precipitation. A monsoonal flow of moist, tropical air moved into the Rockies and ignited daily thunderstorms after mid-month. In the Pacific Northwest, pockets of above normal rainfall were due to a pair of frontal passages around the middle of July. Fire season in the Southwest came to a close in early July with the normal onset of monsoonal moisture.

The normally hectic August fire season didn't happen! Though conditions were severe in wide areas of the West and lightning was extensive in the Northwest, Great Basin, and Northern Rockies, and initial attack forces were very busy, support was needed on very few fires. Type I Team commitment was required on the Kitchen Fire, Salmon N.F., 1,790 acres; Stockton, San Bernadino N.F., 1,430 acres; and the McKim Fire, Salmon District BLM and Salmon N.F., 4,940 acres. Type II teams saw some action in Washington, Oregon, Idaho, Montana, and Nevada. The most difficult fires to control were in the central mountains of Idaho and the Northern Rockies. Severity funded resources were used extensively to control these fires.

Widespread lightning continued throughout the Great Basin, Northern Rockies and portions of the Northwest during the first week of September. Two incidents required Type II Team commitment during this period; the Twin Lakes Fire on the Wallowa-Whitman N.F., 130 acres and the Squaw Lake Fire on the Payette N.F., 280 acres. The Rush Creek Fire, located within the Frank Church River of No Return Wilderness, was being suppressed using a confinement strategy, and grew to 3,000 acres before being controlled. The Net and Lucille Lake fires in the Voyageurs National Park in Minnesota each burned more than 400 acres before being contained on September 8. An upper level low pressure system moved into the Northwest producing showers and cooler temperatures during the weekend of September 7-8. By September 11, a more normal fall weather pattern was in place over the West with no significant fire activity occurring.

In late September a normal summer weather pattern developed in the West, the type of weather pattern that would have caused severe fire problems had it occurred in July or August. There was another series of dry lightning storms in Northern California, Oregon, Northern Rockies, and Great Basin. In addition strong east winds occurred periodically in the Northwest and northern California. Several Type II fires occurred in Oregon, Idaho, Montana, and Northern California during this period.

Fire conditions in the Northwest, Northern Rockies, northern California, and the Great Basin continued to worsen in October. A strong ridge of high pressure along or just off the West coast combined with periodic wind events created the most severe fire conditions of the 1991 season.

Several Type II fires occurred throughout the west in early October. On October 11, strong east winds kindled the Falls Creek fire, Mt. Hood National Forest, and the Warner fire, Willamette National Forest, and Type I fire teams were committed to these fires. The Warner fire burned 9,200 acres before being controlled by a work force of 2,700 people. Another Type I fire team was mobilized for the Game Range fire in the Northern Rockies.

Red flag warnings on October 16th alerted the fire community to strong winds with the passage of a dry cold front through the Northern tier of states. Devastating winds swept through eastern Washington, Northern Idaho, Montana, and Wyoming, causing several major fires. The area in and around Spokane, Washington was the most affected. Over 50 fires, many started from downed powerlines, burned 40,000 acres and destroyed 50-100 homes. In the Northern Rockies, three Type I fire teams were committed to fires in Northern Idaho and Montana. In the Great Basin, one Type I fire team was mobilized for the Dry Cottonwood fire on the Bridger-Teton National Forest. The National Interagency Fire Coordination Center went to Fire Preparedness Level III for the first time this year. On the evening of October 16,

a P-3 air tanker on a ferry flight from southern California to Missoula, Montana crashed near Missoula, killing the two pilots. By October 21st, most fires were nearing containment and the western fire season was coming to a close.

Just as the western fire season was winding down, the Southern Area's fall fire season became very active. A Type I team was committed to the Piney Mountain fire on the George Washington National Forest and several Type II fires occurred in West Virginia, Tennessee, Daniel Boone National Forest, Cherokee National Forest, and the New River Gorge National Park. Five air tankers, two lead planes, 14 Type I crews and 4 Type II helicopters were used in the suppression of these fires. The Second United States Army mobilized one shower unit and one transportation unit for support of fires on the Cherokee National Forest.

Fire conditions continued to decline in early November in the South and by mid-month there was no significant fire activity. The Southern California fall fire season never became too active and there were no situations that required national mobilization support.

Summary

The 1991 fire season could be categorized as below normal to normal. Only 14 fires required Type I Incident Management Teams. In 1990 there were 28 such fires. One hundred and seventy three Type II crews were mobilized through NICC and most of these were mobilized in October. In 1990, 580 Type II crews and three battalions of military troops were mobilized. 10,877 fires were reported on National Forest system lands and burned 173,206 acres. 1991 didn't produce any severe dry lightning storms that historically present fire managers with the greatest problems. The potential for serious fire problems existed season-long in isolated areas of the West. 1991 was a very successful year. This success can be attributed to the recognition of a potentially serious year, accelerated fire preparedness actions, moisture regimes associated with most lightning storms, and most importantly, aggressive initial attack programs.

INFLUENCE OF PERSISTENT DROUGHT

There are many ways to measure dry conditions in any one particular location. Over the past several years the **Palmer Drought Index** has been used as one measure of relative dryness. This index is long term and will only be moderately influenced by short term wet periods. This index, along with measurements of both live and dead fuel moisture combined with longer range forecast charts becomes another tool in forecasting where the greatest fire potential exists.

Drought conditions for the past several years have been well documented in the Western Unted States. These conditions once again persisted for the 1991 fire season. Large areas of severe to extreme drought continued over the West through the winter months of 1990-1991 into early spring. Abundant spring rains decreased the indices somewhat by the end of May. This slightly wetter regime continued through the summer with sporadic but timely rainfall. An area of increasing drought became evident in the Mid Atlantic states and Ohio Valley as summer progressed into fall. The particularly dry regime of years past in the Southeastern States disappeared as abundant recurring rainfall fell through the spring and summer.

It should be noted that long term drought is only one indicator of high fire potential areas. Effects of short term dryness and well above normal temperatures can contribute greatly to high fire potential, even if a particular area is not in a long term drought situation.

Large Wildfire Occurrence Report

In 1991 there 41 Class F and G Wildfires (over 1,000 acres) burning a total of 112,148 acres of land. The acres listed in this table represent the total acres burned for each fire, for all ownerships, including National Forest System and other lands under Forest Service protection.

Region	Date	State	National Forest	Name of Wildfire	Acres Burned
			REGION 1		
1	04/05/91	MT	Custer	Robertson Draw	4,360
1	07/16/91	MT	Gallatin	Thompson Creek	7,746
1	08/27/91	ID	Bitterroot	Cooper Creek	1,500
1	09/24/91	ID	Nezperce	Rackliff	1,072
1	10/16/91	MT	Bitterroot	Overwhich II	1,880
1	10/16/91	MT	Kootenai	Arbow	3,551
1	10/16/91	MT	Kootenai	Keystone	7,869
1	10/16/91	MT	Gallatin	Bostwick	1,113
1	10/16/91	ID	Idaho Panhandle	Kilroy Bay	2,300
			REGION 2		
2	04/03/91	SD	Black Hills	Shirttail	4,000
2	04/05/91	SD	Black Hills	Horse Creek/McVay	1,510
2	07/15/91	WY	Medicine Bow	Mush Creek	1,066
2	10/01/91	WY	Black Hills	Dewey 2	1,004
			REGION 3		
3	03/26/91	TX	Cibola	* No Information	2,136
3	06/14/91	NM	Gila	Hudson	1,686
3	06/21/91	AZ	Tonto	St. Clair	1,100
3	07/03/91	NM	Gila	Turkey	1,200
3	07/26/91	AZ	Coronado	Cumero	3,040
			REGION 4		
4	08//07/91	ID	Payette	Rush Creek	8,487
4	08/13/91	ID	Salmon	Kitchen	1,790
4	08/20/91	NV	Humboldt	Reservation Hill	5,233
4	08/20/91	NV	Humboldt	Rebel	2,000
4	08/22/91	NV	Humboldt	Minerva	3,437
4	08/25/91	ID	Salmon	McKim	4,940
4	08/31/91	NV	Humboldt	Duck	2,000
4	10/14/91	WY	Bridger-Teton	Dry Cottonwood	5,957

Large Wildfire Occurrence Report (Cont'd.)

			REGION 5		
5	08/21/91	CA	San Bernardino	Stockton	1,430
5	09/18/91	CA	Shasta-Trinity	Rock	1,290
5	10/20/91	CA	Los Padres	Lion	1,905
			REGION 6		
6	10/09/91	OR	Mt. Hood	Falls	1,430
6	10/10/91	OR	Willamette	Warner Creek	9,200
			REGION 8		
8	03/24/91	SC	Francis Marion-Sumpter	Mills Bay	1,508
8	07/23/91	FL	Florida	Perchman	1,180
8	10/19/91	VA	George Washington	Piney Mountain	1,425
8	10/25/91	KY	Daniel Boone	Otter	2,000
8	10/28/91	KY	Daniel Boone	Cradle	1,950
8	10/29/91	TN	Cherokee	Unaka Complex	1,699
8	10/30/91	KY	Daniel Boone	Gas Well	1,300
8	11/01/91	KY	Daniel Boone	Sugar	1,150
			REGION 9		
9	03/27/91	MO	Mark Twain	Beecher	1,353
9	03/30/91	MO	Mark Twain	Wildcat	1,351

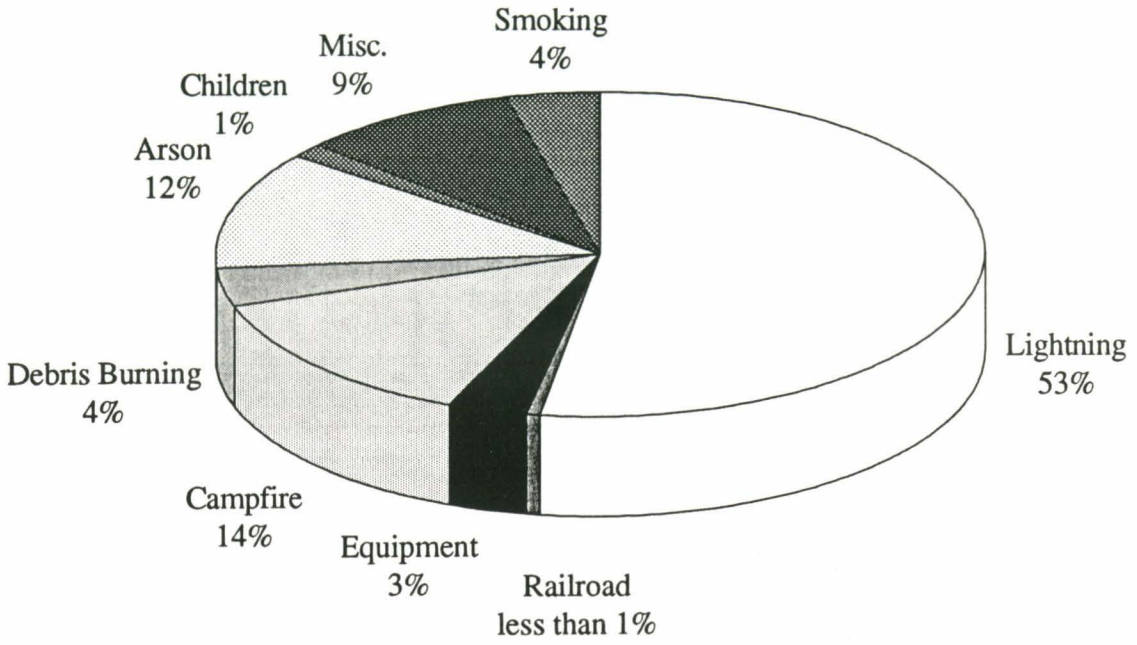
Total Acreage **112,148**

1991 - LAND OWNERSHIP PROTECTION REPORT - NATIONAL FOREST SYSTEM

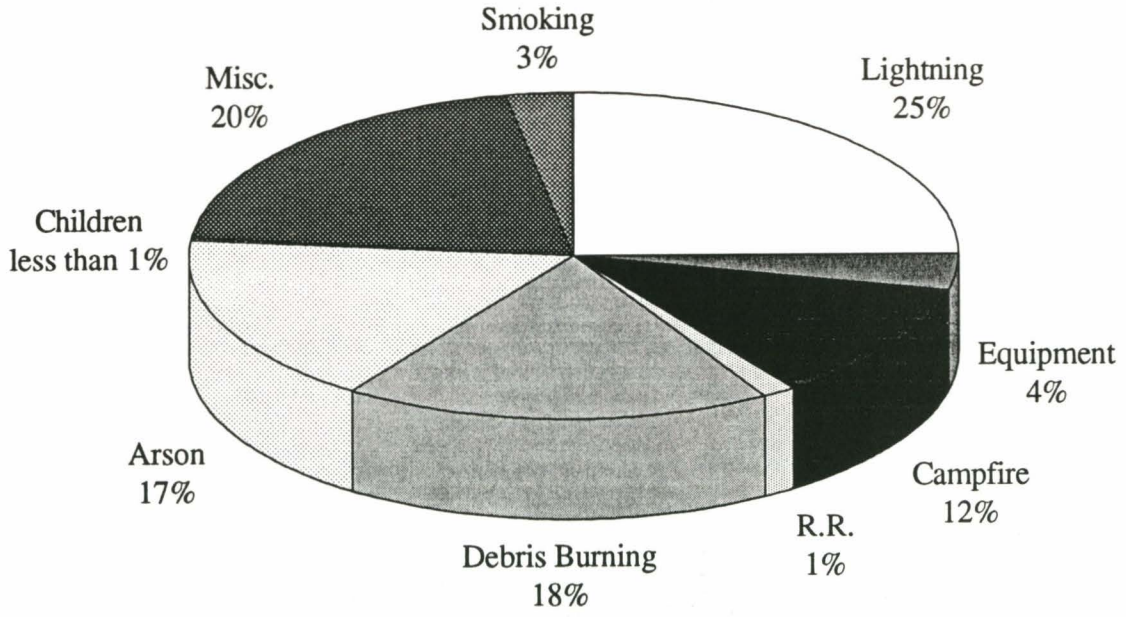
	Inside Forest Protection Boundaries								
	Protected by the Forest Service								
	State and Private Land (includes county and municipal land)								
Region	Fee Basis	Offset Basis	Reimbursement Suppression Costs Only	Without Reimbursement	Other Federal Land	National Forest Land	Total	S&P Land Protected By State & FS *	National Forest Land Protected By Others
1	1,629,916	262,213	10,443		1,301,589	23,666,878	26,871,039		2,120,907
2	26,215	236,037	551,613	105,180	3,396,643	21,977,357	25,035,650	1,848,206	267,364
3					402,272	20,978,567	21,380,839		
4	505,479	160,861	118,425	143,474	1,408,928	29,693,736	32,030,903	267,203	1,976,876
5		3,727,224			178,211	19,001,935	22,907,380		823,228
6	7224	83,322		159,263	84,661	24,729,403	25,063,887	434,792	162,504
8		252,647			209,300	12,552,333	13,014,280	2,552,822	371,100
9		1,092,668		799,419	40,586	10,414,364	12,420,967		1,199,734
10			451,305	942,139	5,139,189	22,231,636	28,764,269		405,760
TOTAL	2,168,834	5,814,972	1,131,786	2,149,475	12,161,379	185,246,209	207,489,214	5,103,023	7,327,473

* Under mutual assistance agreement

TOTAL WILDFIRES



ACRES BURNED

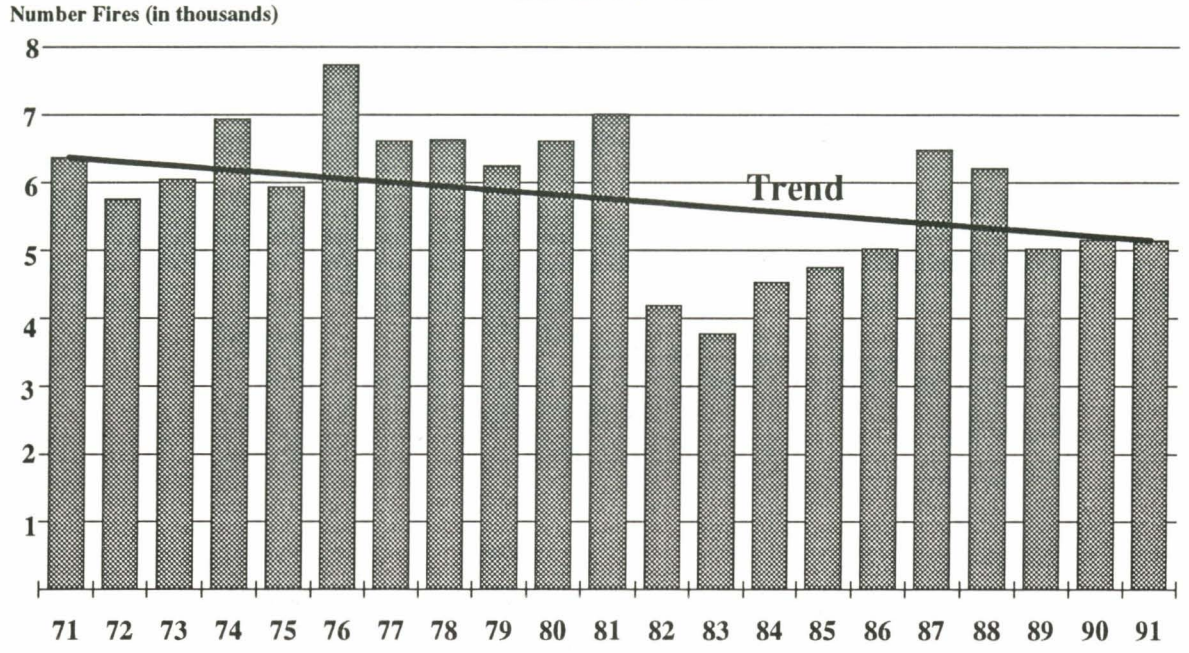


Number of Wildfires by Size and Cause
All Regions
CY 1991

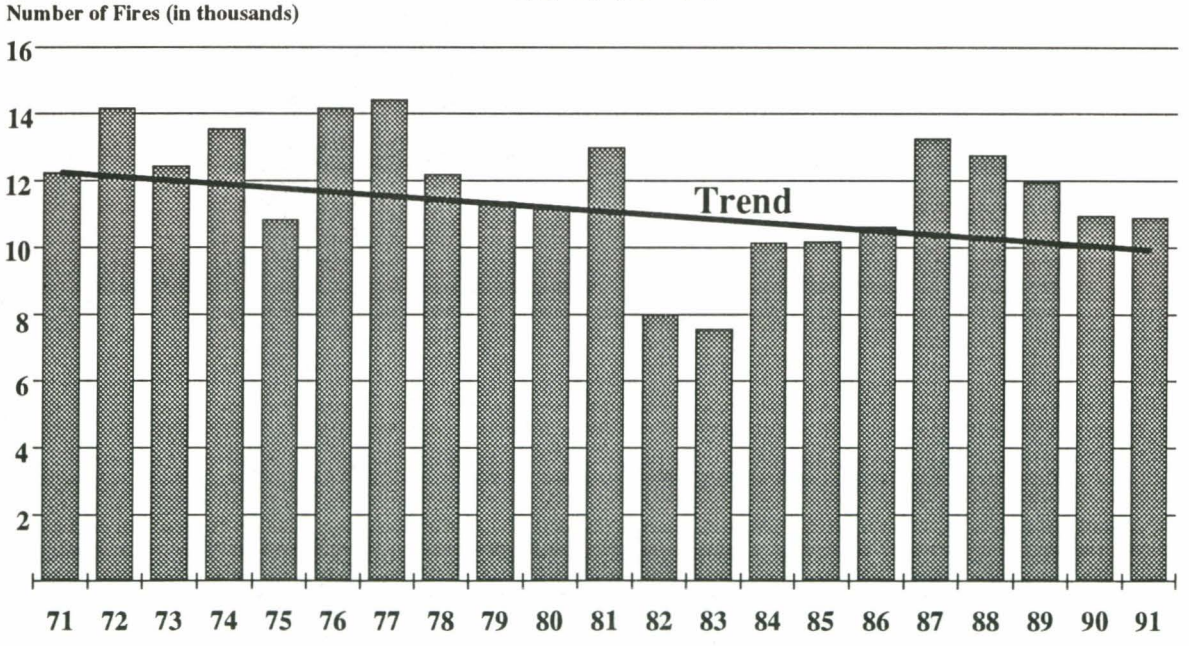
Size Class in Acres	Lightning	Person-Caused	Total
A (.25 or less)	4,215	2,891	7,106
B (.26 - 9)	1,344	1,611	2,955
C (10 - 99)	134	485	619
D (100 - 299)	22	81	103
E (300 - 999)	14	45	59
F (1,000 - 4,999)	8	27	35
G (5,000 +)	2	4	6
TOTAL	**5,739**	**5,144**	**10,883**

Statistical Cause	Number of Wildfires	Acres Burned
Lightning	5,739	41,173
Equipment	368	5,779
Smoking	401	4,138
Campfire	1,481	19,241
Debris Burning	413	29,779
Railroad	48	1,973
Arson	1,281	27,682
Children	152	412
Miscellaneous	1000	33,363
TOTAL	**10,883**	**163,540**

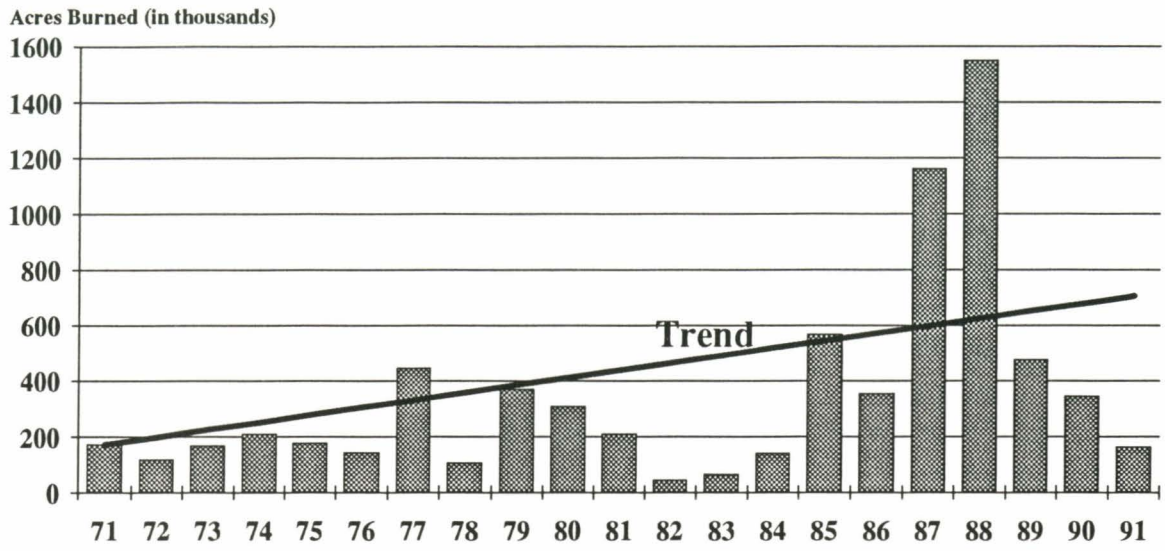
Number of Person - Caused Fires Under National Forest Protection
CY 1971 - 91



Number of Wildfires (All Causes) Under National Forest Protection
CY 1971 - 91



Acres Burned Under National Forest Protection
CY 1971 - 91



Total Wildfires and Acres Burned Under National Forest Protection

Calendar Year	*Number of Wildfires*			Acres Burned
	Lightning	Person - Caused	**Total**	
1982	3,788	4,195	**7,983**	44,622
1983	3,767	3,776	**7,543**	66,498
1984	5,597	4,530	**10,127**	141,139
1985	5,428	4,753	**10,181**	568,297
1986	5,584	5,022	**10,606**	353,128
1987	6,779	6,483	**13,262**	1,162,757
1988	6,550	6,200	**12,750**	1,549,955
1989	6,930	5,023	**11,953**	475,799
1990	7,358	4,592	**11,950**	346,344
1991	5,739	5,144	**10,883**	163,540
10 Year Average				
1982-91	5,752	4,972	**10,724**	487,208

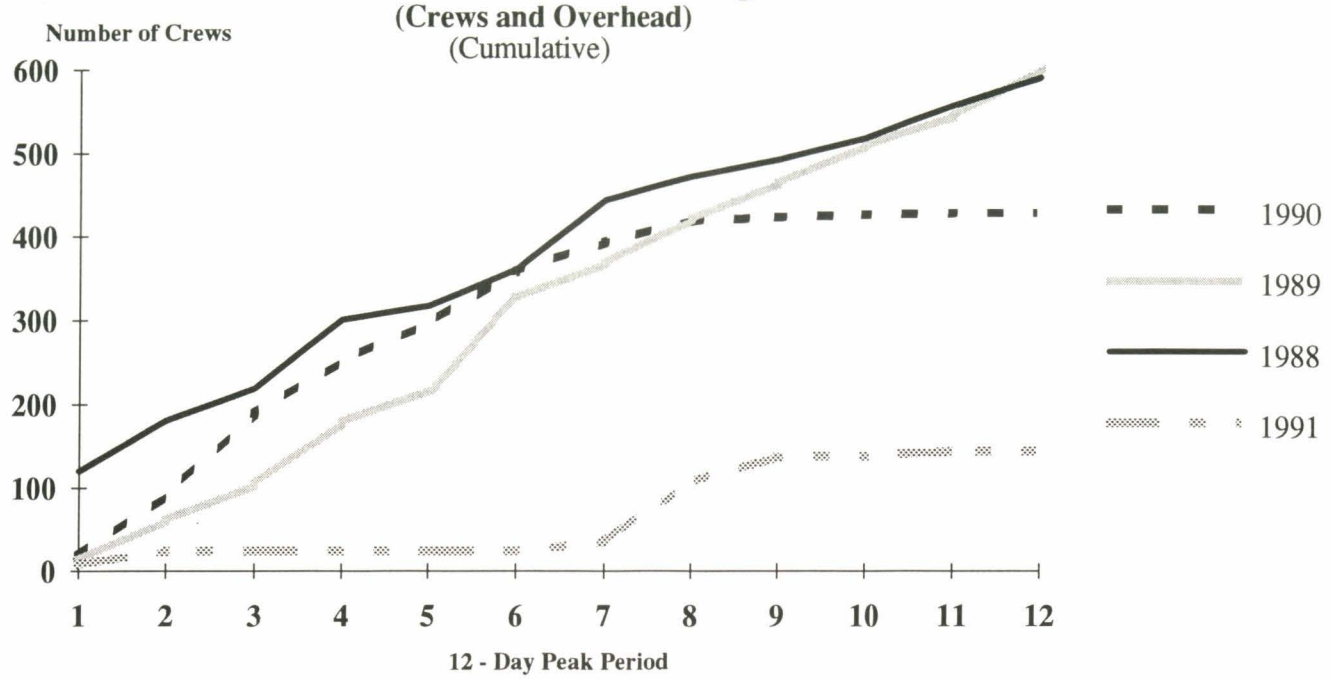
Personnel Employed on Wildfire Presuppression and Suppression Activities

National Summary CY 1991

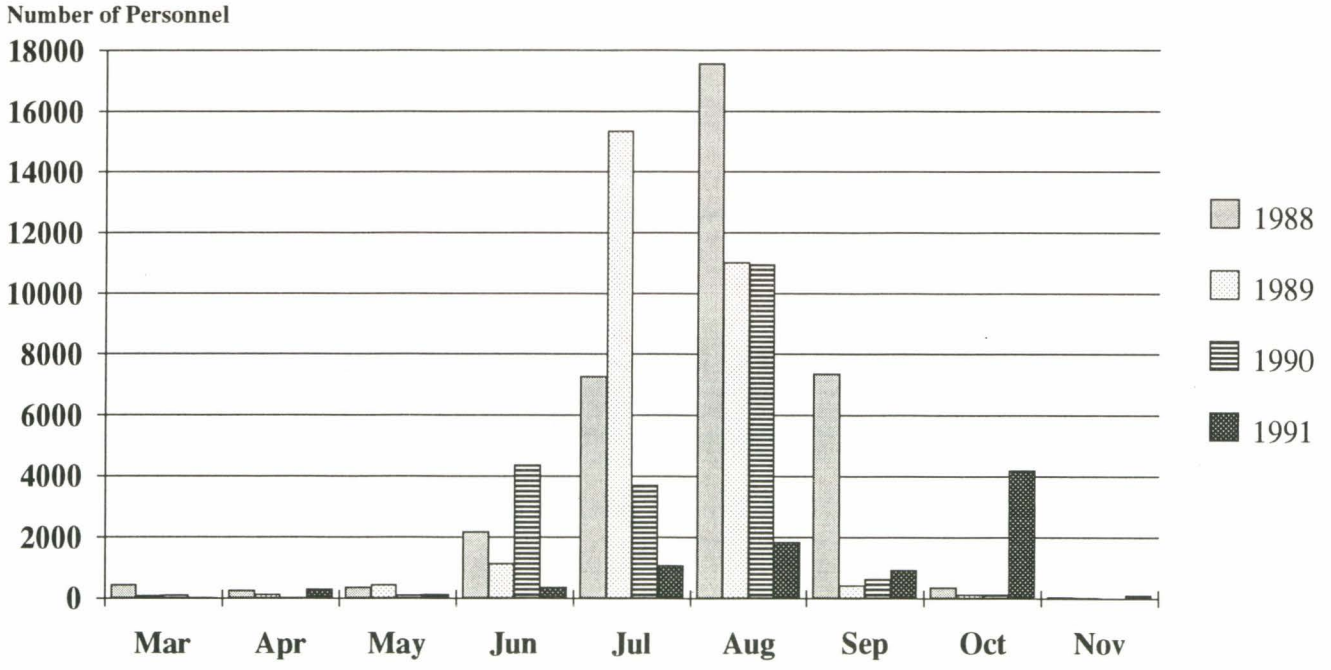
Item No.	Item	Number Subtotal	Number Total
1	**Regular appointed personnel**		
	a. Full-time fire management (20 pay periods or more)	1,672	
	b. Part-time fire management	2,090	
	c. Others used on presuppression sometime during the year	2,215	
	d. Others used on suppression (exclude those under a, b, or c)	5,581	
	e. Total (a+b+c+d)		**11,558**
2	**Seasonal or short-term personnel**		
	a. Regular fire control (crews, firefighter, patrols, lookout, etc.)	5,451	
	b. Others (BD, KV, BR, R&T, etc.) who spent time on fire control work	5,038	
	c. Emergency firefighters (exclude those reported under a or b)	4,443	
	d. Total (a+b+c)		**14,932**
3	**Total number of casuals employed on fire suppression** (Each reemployment counts as an employment)		**20,535**
4	**Number of casuals (included in Item 3) employed for first time** (Ranger's estimate is adequate)		**3,871**
5	**GRAND TOTAL (1e+2d+3)**		**47,025**

Resources Mobilized Through NICC

(Crews and Overhead)
(Cumulative)



Resources Mobilized Through NICC



REGION 1

Number of Wildfires by Statistical Cause

Table 1 1991

National Forest	State		Lightning	Person - Caused								Total Person - Caused	Total All Causes	Non-NFS Land Under FS Protection	
				Equipment	Smoking	Campfire	Debris Burning	Railroad	Arson	Children	Misc			Within	Outside
BEAVERHEAD	MT	National Forest	30	0	3	8	0	0	0	0	0	11	41		
		Total All Land	35	1	3	9	1	0	0	0	0	14	49	7	1
BITTERROOT	ID	National Forest	34	0	1	4	0	0	0	0	0	5	39		
		Total All Land	34	0	1	4	0	0	0	0	0	5	39	0	0
	MT	National Forest	118	1	1	7	1	0	1	1	1	13	131		
		Total All Land	135	1	2	8	2	0	1	1	3	18	153	22	0
IDAHO PANHANDLE	ID	National Forest	56	3	9	8	1	0	0	0	7	28	84		
		Total All Land	65	3	11	10	4	1	1	0	14	44	109	25	0
	MT	National Forest	0	0	1		0	0	0	0	0	1	1		
		Total All Land	0	0	0	1	0	0	0	0	0	1	1	0	0
	WA	National Forest	10	0	0	0	2	0	0	0	0	2	12		
		Total All Land	10	0	0	0	2	0	0	0	0	2	12	0	0
CLEARWATER	ID	National Forest	96	0	0	13	2	0	1	0	5	21	117		
		Total All Land	102		0	14	2	0	1	0	5	23	125	8	0
CUSTER	MT	National Forest	51	0	1	2	1	0	0	0	2	6	57		
		Total All Land	51	0	1	2	1	0	0	0	2	6	57	0	0
	ND	National Forest	4	4	0	1	0	0	0	0	0	5	9		
		Total All Land	4	4	0	1	0	0	0	0	0	5	9	0	0
	SD	National Forest	4	0	0	0	0	0	0	0	0	0	4		
		Total All Land	4	0	0	0	0	0	0	0	0	0	4	0	0
DEERLODGE	MT	National Forest	26	0	0	7	0	0	0	0	1	8	34		
		Total All Land	30	1	1	8	1	0	0	0	1	12	42	4	4
FLATHEAD	MT	National Forest	17	0	4	17	2	0	0	1	2	26	43		
		Total All Land	19	1	4	19	5	0	0	1	2	32	51	6	2
GALLATIN	MT	National Forest	36	0	2	8	0	0	0	0	4	14	50		
		Total All Land	44	0	2	9	0	0	0	0	5	16	60	8	2
HELENA	MT	National Forest	20	1	1	14	3	0	0	0	0	19	39		
		Total All Land	25	3	1	16	3	0	0	0	1	24	49	9	1
KOOTENAI	MT	National Forest	39	0	10	16	8	0	0	0	9	43	82		
		Total All Land	43	5	12	22	17	8	2	4	13	83	126	44	0
LEWIS AND CLARK	MT	National Forest	31	1	0	8	0	0	0	0	0	9	40		
		Total All Land	31	1	0	8	0	0	0	0	1	10	41	1	0
LOLO	MT	National Forest	58	1	1	14	4	1	0	0	5	26	84		
		Total All Land	68	2	1	16	21	6	2	1	31	80	148	64	0
NEZPERCE	ID	National Forest	220	2	3	17	1	0	1	0	1	25	245		
		Total All Land	226	2	3	17	3	0	1	0	2	28	254	9	0
REGION 1 TOTAL		**National Forest**	**850**	**13**	**36**	**145**	**25**	**1**	**3**	**2**	**37**	**262**	**1112**		
		Total All Land	**926**	**25**	**42**	**164**	**62**	**15**	**8**	**7**	**80**	**403**	**1329**	**207**	**10**

REGION 2

Number of Wildfires by Statistical Cause

Table 1 1991

National Forest	State		Lightning	Person - Caused								Total Person - Caused	Total All Causes	Non-NFS Land Under FS Protection	
				Equipment	Smoking	Campfire	Debris Burning	Railroad	Arson	Children	Misc			Within	Outside
BIGHORN	WY	National Forest	8	0	0	45	1	0	0	0	1	47	55		
		Total All Land	9	0	0	45	1	0	0	0	1	47	56	1	0
BLACK HILLS	SD	National Forest	74	5	1	11	3	0	1	0	7	28	102		
		Total All Land	75	5	1	11	3	0	1	0	9	30	105	3	0
	WY	National Forest	8	0	0	3	0	0	0	0	2	5	13		
		Total All Land	10	0	0	3	0	1	2	0	2	8	18	5	0
GRAND MESA-UNC-GUNNS	CO	National Forest	13	0	4	14	0	0	0	0	2	20	33		
		Total All Land	13	0	4	14	0	0	0	0	2	20	33	0	0
MEDICINE BOW	WY	National Forest	30	2	1	4	1	0	4	0	5	17	47		
		Total All Land	30	3	1	4	1	0	4	0	6	19	49	1	1
NEBRASKA	NE	National Forest	4	0	0	0	0	0	0	0	0	0	4		
		Total All Land	5	0	0	0	0	0	0	0	0	0	5	1	0
	SD	National Forest	5	1	0	0	0	0	0	0	0	1	6		
		Total All Land	5	1	0	0	0	0	0	0	0	1	6	0	0
RIO GRANDE	CO	National Forest	6	1	0	1	0	0	0	0	2	4	10		
		Total All Land	6	1	0	2	0	0	0	0	2	5	11	1	0
ARAPAHO-ROOSEVELT	CO	National Forest	21	0	1	8	0	1	0	1	9	20	41		
		Total All Land	21	0	1	9	1	1	0	1	10	23	44	1	2
ROUTT	CO	National Forest	8	1	4	3	0	0	0	0	2	10	18		
		Total All Land	9	1	5	3	0	0	0	0	4	13	22	3	1
PIKE-SAN ISABEL	CO	National Forest	28	0	0	20	0	0	1	1	3	25	53		
		Total All Land	34	0	2	22	0	1	1	1	3	30	64	10	1
	KS	National Forest	0	2	0	1	0	0	0	0	3	6	6		
		Total All Land	0	2	0	1	0	0	0	0	5	8	8	2	0
SAN JUAN	CO	National Forest	27	0	1	7	0	0	0	1	2	11	38		
		Total All Land	31	0	1	7	0	0	0	1	4	13	44	6	0
SHOSHONE	WY	National Forest	14	0	0	7	0	0	0	0	1	8	22		
		Total All Land	15	0	0	7	0	0	0	0	1	8	23	1	0
WHITE RIVER	CO	National Forest	4	1	2	19	1	0	0	0	3	26	30		
		Total All Land	5	1	2	21	1	0	0	0	4	29	34	4	0
REGION 2 TOTAL		**National Forest**	**250**	**13**	**14**	**143**	**6**	**1**	**6**	**3**	**42**	**228**	**478**		
		Total All Land	**268**	**14**	**17**	**149**	**7**	**3**	**8**	**3**	**53**	**254**	**522**	**39**	**5**

REGION 3

Number of Wildfires by Statistical Cause

Table 1 1991

National Forest	State		Lightning	*Person - Caused*								Total Person - Caused	Total All Causes	Non-NFS Land Under FS Protection	
				Equipment	Smoking	Campfire	Debris Burning	Railroad	Arson	Children	Misc			Within	Outside
APACHE-SITGREAVES	AZ	National Forest	109	0	16	103	2	0	5	4	3	133	242		
		Total All Land	110	0	17	104	6	0	5	6	5	143	253	11	0
CARSON	NM	National Forest	28	0	0	4	1	0	0	0	2	7	35		
		Total All Land	29	0	1	4	2	0	0	0	3	10	39	4	0
CIBOLA	NM	National Forest	40	0	2	3	0	0	1	1	3	10	50		
		Total All Land	53	0	4	4	1	0	1	2	4	16	69	19	0
	OK	National Forest	0	1	0	0	0	0	0	0	0	1	1		
		Total All Land	0	1	0	0	0	0	0	0	0	1	1	0	0
	TX	National Forest	0	0	0	0	1	0	0	0	0	1	1		
		Total All Land	0	0	0	0	1	0	0	0	1	2	2	1	0
COCONINO	AZ	National Forest	192	9	20	94	4	0	4	6	27	164	356		
		Total All Land	202	10	20	107	4	0	4	8	28	181	383	26	1
CORONADO	AZ	National Forest	45	1	7	31	2	0	6	0	5	52	97		
		Total All Land	46	4	8	32	2	0	6	0	7	59	105	5	3
GILA	NM	National Forest	127	2	7	12	1	0	4	1	9	36	163		
		Total All Land	127	2	7	12	1	0	4	1	9	36	163	0	0
KAIBAB	AZ	National Forest	139	1	3	42	0	0	2	3	7	58	197		
		Total All Land	139	1	3	42	0	0	2	3	7	58	197	0	0
LINCOLN	NM	National Forest	21	1	2	4	0	0	3	0	3	13	34		
		Total All Land	22	3	4	5	1	0	3	2	6	24	46	8	4
PRESCOTT	AZ	National Forest	11	5	8	12	0	0	1	2	7	35	46		
		Total All Land	12	5	9	12	0	0	1	3	7	37	49	3	0
SANTA FE	NM	National Forest	63	2	1	9	0	0	1	1	2	16	79		
		Total All Land	63	2	1	9	0	0	1	1	2	16	79	0	0
TONTO	AZ	National Forest	70	24	12	21	2	0	12	3	35	109	179		
		Total All Land	72	25	12	22	3	0	12	3	38	115	187	7	1
REGION 3 TOTAL		**National Forest**	**845**	**46**	**78**	**335**	**13**	**0**	**39**	**21**	**103**	**635**	**1480**		
		Total All Land	**875**	**53**	**86**	**353**	**21**	**0**	**39**	**29**	**117**	**698**	**1573**	**84**	**9**

REGION 4

Number of Wildfires by Statistical Cause

Table 1 1991

National Forest	State		Lightning	Person - Caused								Total Person - Caused	Total All Causes	Non-NFS Land Under FS Protection	
				Equipment	Smoking	Campfire	Debris Burning	Railroad	Arson	Children	Misc			Within	Outside
ASHLEY	UT	National Forest	27	0	2	3	3	0	0	0	0	8	35		
		Total All Land	27	0	2	3	3	0	0	0	0	8	35	0	0
BOISE	ID	National Forest	134	3	10	10	0	0	2	1	5	31	165		
		Total All Land	142	3	11	11	4	0	4	2	8	43	185	20	0
BRIDGER-TETON	WY	National Forest	37	0	1	50	5	0	0	0	4	60	97		
		Total All Land	37	0	1	52	5	0	0	0	4	62	99	2	0
CARIBOU	ID	National Forest	6	1	0	1	2	0	0	1	1	6	12		
		Total All Land	8	1	0	1	2	0	0	1	1	6	14	0	2
	UT	National Forest	2	0	0	0	0	0	0	0	0	0	2		
		Total All Land	2	0	0	0	0	0	0	0	0	0	2	0	0
CHALLIS	ID	National Forest	48	0	1	5	1	0	0	0	0	7	55		
		Total All Land	53	0	1	8	3	0	0	0	0	12	65	10	0
DIXIE	UT	National Forest	67	0	7	9	1	0	0	0	3	20	87		
		Total All Land	70	0	8	9	4	0	0	0	3	24	94	7	0
FISHLAKE	UT	National Forest	72	0	0	3	1	0	0	0	0	4	76		
		Total All Land	72	0	0	3	1	0	0	0	0	4	76	0	0
HUMBOLDT	NV	National Forest	24	2	0	3	1	0	0	0	1	7	31		
		Total All Land	24	2	0	3	1	0	1	0	1	8	32	0	1
MANTI-LASAL	CO	National Forest	4	0	0	0	0	0	0	0	0	0	4		
		Total All Land	4	0	0	0	0	0	0	0	0	0	4	0	0
	UT	National Forest	30	1	3	2	0	0	0	0	1	7	37		
		Total All Land	31	1	3	2	0	0	0	0	1	7	38	1	0
PAYETTE	ID	National Forest	132	0	3	11	0	0	0	1	3	18	150		
		Total All Land	138	1	3	14	2	0	0	1	5	26	164	14	0
SALMON	ID	National Forest	105	1	0	7	4	0	0	0	5	17	122		
		Total All Land	107	1	0	7	4	0	0	0	5	17	124	1	1
SAWTOOTH	ID	National Forest	27	4	4	15	0	0	1	0	0	24	51		
		Total All Land	28	4	4	15	0	0	1	0	0	24	52	1	0
TARGHEE	ID	National Forest	14	3	1	6	2	0	0	0	4	16	30		
		Total All Land	15	3	1	6	3	0	1	0	5	19	34	4	0
	WY	National Forest	7	0	0	0	0	0	0	0	0	0	7		
		Total All Land	7	0	0	0	0	0	0	0	0	0	7	0	0
TOIYABE	CA	National Forest	61	1	3	6	2	0	0	1	0	13	74		
		Total All Land	66	3	3	8	2	0	1	1	4	22	88	14	0
	NV	National Forest	73	9	1	33	2	0	9	4	5	63	136		
		Total All Land	74	9	1	34	2	0	9	4	5	64	138	2	0
UINTA	UT	National Forest	17	1	2	10	0	0	2	1	3	19	36		
		Total All Land	20	2	2	10	0	0	10	6	7	37	57	20	1
WASATCH	UT	National Forest	12	0	0	10	0	1	1	0	5	17	29		
		Total All Land	12	0	0	10	0	2	1	0	5	18	30	0	1
REGION 4 TOTAL		**National Forest**	**899**	**26**	**38**	**184**	**24**	**1**	**15**	**9**	**40**	**337**	**1236**		
		Total All Land	**937**	**30**	**40**	**196**	**36**	**2**	**28**	**15**	**54**	**401**	**1338**	**96**	**6**

REGION 5

Number of Wildfires by Statistical Cause

Table 1 1991

National Forest	State		Lightning	Person - Caused								Total Person - Caused	Total All Causes	Non-NFS Land Under FS Protection	
				Equipment	Smoking	Campfire	Debris Burning	Railroad	Arson	Children	Misc			Within	Outside
INYO	CA	National Forest	74	5	3	15	0	0	2	0	8	33	107		
		Total All Land	74	5	3	15	0	0	2	0	8	33	107	0	0
KLAMATH	CA	National Forest	124	2	3	5	3	0	5	2	5	25	149		
		Total All Land	163	4	3	5	7	0	5	3	9	36	199	46	4
	OR	National Forest	1	0	0	0	0	0	0	0	0	0	1		
		Total All Land	1	0	0	0	0	0	0	0	0	0	1	0	0
LASSEN	CA	National Forest	82	1	6	6	2	0	2	1	5	23	105		
		Total All Land	97	8	9	7	4	0	3	1	9	41	138	32	1
LOS PADRES	CA	National Forest	14	1	0	14	0	0	2	0	3	20	34		
		Total All Land	17	6	0	15	2	0	3	0	8	34	51	15	2
MENDOCINO	CA	National Forest	24	2	0	9	4	0	3	0	1	19	43		
		Total All Land	26	2	0	10	5	0	4	0	3	24	50	6	1
MODOC	CA	National Forest	98	3	3	4	0	1	0	2	1	14	112		
		Total All Land	106	3	3	4	1	1	0	2	2	16	122	10	0
SIX RIVERS	CA	National Forest	29	3	0	1	1	0	3	0	11	19	48		
		Total All Land	33	5	3	1	5	0	7	0	18	39	72	23	1
PLUMAS	CA	National Forest	102	2	3	5	7	1	6	1	17	42	144		
		Total All Land	115	4	4	6	11	2	7	8	31	73	188	42	2
SAN BERNARDINO	CA	National Forest	39	13	2	16	1	0	29	3	44	108	147		
		Total All Land	46	24	4	18	2	0	54	20	71	193	239	75	17
SEQUOIA	CA	National Forest	74	3	4	10	6	0	1	0	13	37	111		
		Total All Land	78	4	4	12	9	0	12	0	21	62	140	11	18
SHASTA-TRINITY	CA	National Forest	123	3	7	22	2	0	5	1	20	60	183		
		Total All Land	152	9	11	36	10	0	22	8	44	140	292	102	7
SIERRA	CA	National Forest	105	4	3	16	6	0	1	1	14	45	150		
		Total All Land	109	12	3	18	11	0	2	4	33	83	192	27	15
STANISLAUS	CA	National Forest	46	6	4	16	2	0	2	1	9	40	86		
		Total All Land	47	7	6	16	3	0	4	5	15	56	103	17	0
TAHOE	CA	National Forest	58	0	5	7	1	0	2	0	9	24	82		
		Total All Land	85	1	5	17	5	1	6	3	22	60	145	63	0
LAKE TAHOE BASIN	CA	National Forest	9	0	9	5	2	0	1	5	2	24	33		
		Total All Land	10	0	10	6	2	0	2	7	7	34	44	11	0
	NV	National Forest	1	0	2	0	0	0	0	0	0	2	3		
		Total All Land	2	0	2	0	0	0	0	0	1	3	5	2	0
REGION 5 TOTAL		**National Forest**	**1066**	**63**	**58**	**181**	**46**	**2**	**92**	**19**	**213**	**674**	**1740**		
		Total All Land	**1230**	**117**	**75**	**221**	**94**	**4**	**189**	**65**	**384**	**1149**	**2379**	**536**	**103**

REGION 6

Number of Wildfires by Statistical Cause

Table 1 1991

National Forest	State		Lightning	Person - Caused								Total Person - Caused	Total All Causes	Non-NFS Land Under FS Protection	
				Equipment	Smoking	Campfire	Debris Burning	Railroad	Arson	Children	Misc			Within	Outside
DESCHUTES	OR	National Forest	196	4	12	18	1	0	41	2	22	100	296		
		Total All Land	196	4	12	18	1	0	41	2	22	100	296	0	0
FREMONT	OR	National Forest	110	2	3	2	0	0	3	0	3	13	123		
		Total All Land	110	2	3	2	0	0	3	0	3	13	123	0	0
GIFFORD PINCHOT	WA	National Forest	19	2	11	11	1	0	4	0	2	31	50		
		Total All Land	19	2	11	11	1	0	4	0	2	31	50	0	0
MALHEUR	OR	National Forest	195	3	3	20	3	0	2	0	4	35	230		
		Total All Land	195	3	3	20	3	0	2	0	4	35	230	0	0
MT. BAKER-SNOQUALMIE	WA	National Forest	11	1	9	14	0	1	0	4	5	34	45		
		Total All Land	11	1	9	14	0	1	0	4	6	35	46	0	1
MT. HOOD	OR	National Forest	29	4	21	24	0	0	3	1	7	60	89		
		Total All Land	29	5	21	24	0	0	3	1	7	61	90	1	0
OCHOCO	OR	National Forest	87	2	1	16	0	0	4	0	1	24	111		
		Total All Land	89	3	1	16	0	0	4	0	1	25	114	2	1
OKANOGAN	WA	National Forest	37	0	3	15	1	0	1	0	3	23	60		
		Total All Land	44	0	3	19	7	0	1	1	8	39	83	23	0
OLYMPIC	OR	National Forest	0	0	0	1	0	0	0	0	0	1	1		
		Total All Land	0	0	0	1	0	0	0	0	0	1	1	0	0
ROGUE RIVER	CA	National Forest	7	0	0	1	0	0	0	0	0	1	8		
		Total All Land	7	0	0	1	0	0	0	0	0	1	8	0	0
	OR	National Forest	58	1	1	2	0	0	0	0	3	7	65		
		Total All Land	58	1	1	2	0	0	0	0	3	7	65	0	0
SISKIYOU	CA	National Forest	0	0	0	0	0	0	0	0	0	0	0		
		Total All Land	2	0	0	0	0	0	0	0	0	0	2	2	0
	OR	National Forest	15	2	3	6	2	0	1	0	5	19	34		
		Total All Land	15	2	3	6	2	0	1	0	5	19	34	0	0
SIUSLAW	OR	National Forest	0	1	1	6	0	0	0	0	1	9	9		
		Total All Land	0	1	1	7	0	0	0	0	1	10	10	1	0
UMATILLA	OR	National Forest	71	0	2	7	3	0	0	0	3	15	86		
		Total All Land	71	0	2	7	3	0	0	0	3	15	86	0	0
	WA	National Forest	17	0	1	31	1	0	0	0	0	33	50		
		Total All Land	22	0	1	34	1	0	0	0	1	37	59	9	0
UMPQUA	OR	National Forest	82	1	1	4	0	0	1	0	6	13	95		
		Total All Land	82	1	1	4	0	0	1	0	6	13	95	0	0
WALLOWA-WHITMAN	ID	National Forest	1	0	0	0	0	0	0	0	0	0	1		
		Total All Land	1	0	0	0	0	0	0	0	0	0	1	0	0
	OR	National Forest	131	5	4	25	3	0	1	2	5	45	176		
		Total All Land	139	5	4	25	3	0	1	3	6	47	186	2	8
WENATCHEE	WA	National Forest	91	8	11	44	0	1	0	1	6	71	162		
		Total All Land	91	8	11	46	2	1	0	1	6	75	166	3	1

REGION 6, Cont'd.

Number of Wildfires by Statistical Cause

Table 1 1991

National Forest	State		Lightning	Person - Caused								Total Person - Caused	Total All Causes	Non-NFS Land Under FS Protection	
				Equipment	Smoking	Campfire	Debris Burning	Railroad	Arson	Children	Misc			Within	Outside
WILLAMETTE	OR	National Forest	141	1	9	21	0	0	1	0	9	41	182		
		Total All Land	141	1	9	21	0	0	1	0	9	41	182	0	0
WINEMA	OR	National Forest	65	1	3	14	1	0	9	1	7	36	101		
		Total All Land	65	1	3	14	1	0	10	1	7	37	102	0	1
COLVILLE	OR	National Forest	0	0	0	1	0	0	0	0	0	1	1		
		Total All Land	0	0	0	1	0	0	0	0	0	1	1	0	0
	WA	National Forest	10	1	2	6	0	0	1	0	1	11	21		
		Total All Land	10	1	2	6	0	0	1	0	1	11	21	0	0
REGION 6 TOTAL		**National Forest**	**1373**	**39**	**101**	**289**	**16**	**2**	**72**	**11**	**93**	**623**	**1996**		
		Total All Land	**1397**	**41**	**101**	**299**	**24**	**2**	**73**	**13**	**101**	**654**	**2051**	**43**	**12**

REGION 8

Number of Wildfires by Statistical Cause

Table 1 1991

National Forest	State		Lightning	Person - Caused								Total Person - Caused	Total All Causes	Non-NFS Land Under FS Protection	
				Equipment	Smoking	Campfire	Debris Burning	Railroad	Arson	Children	Misc			Within	Outside
ALABAMA	AL	National Forest	4	2	0	1	2	0	51	0	6	62	66		
		Total All Land	5	2	0	1	3	0	77	0	7	90	95	27	2
DANIEL BOONE	KY	National Forest	3	1	1	2	3	0	97	0	8	112	115		
		Total All Land	3	1	2	2	5	0	137	4	13	164	167	52	0
	TN	National Forest	0	0	0	0	0	0	0	0	0	0	0		
		Total All Land	0	0	0	0	0	0	1	0	0	1	1	0	1
CHATTAHOOCHEE-OCONEE	GA	National Forest	0	1	1	3	1	4	60	0	12	82	82		
		Total All Land	0	1	1	3	8	4	62	0	18	97	97	11	4
CHEROKEE	TN	National Forest	2	0	0	3	1	0	51	0	8	63	65		
		Total All Land	2	0	0	3	5	0	71	0	8	87	89	24	0
FLORIDA	FL	National Forest	19	25	1	6	2	0	24	0	14	72	91		
		Total All Land	23	38	2	6	7	0	27	0	18	98	121	30	0
KISATCHIE	LA	National Forest	1	3	1	1	0	1	28	0	3	37	38		
		Total All Land	1	3	1	1	1	1	29	0	4	40	41	3	0
MISSISSIPPI	MS	National Forest	1	1	3	1	4	2	100	0	12	123	124		
		Total All Land	1	1	6	3	15	2	121	0	15	163	164	38	2
GEORGE WASHINGTON	VA	National Forest	4	1	3	7	0	0	10	0	1	22	26		
		Total All Land	4	1	5	7	0	0	12	0	4	29	33	7	0
QUACHITA	AR	National Forest	24	3	2	2	2	0	15	0	8	32	56		
		Total All Land	24	3	2	2	3	0	15	0	9	34	58	2	0
	OK	National Forest	4	1	0	0	3	0	13	0	2	19	23		
		Total All Land	4	1	0	0	5	0	14	0	2	22	26	3	0
OZARK-ST FRANCIS	AR	National Forest	1	4	1	3	1	0	28	0	9	46	47		
		Total All Land	2	5	2	3	7	0	38	1	10	66	68	13	8

REGION 8, Cont'd.

Number of Wildfires by Statistical Cause

Table 1 1991

National Forest	State		Person - Caused									Total Person - Caused	Total All Causes	Non-NFS Land Under FS Protection	
			Lightning	Equipment	Smoking	Campfire	Debris Burning	Railroad	Arson	Children	Misc			Within	Outside
NORTH CAROLINA	NC	National Forest	8	4	2	7	5	3	20	3	3	47	55		
		Total All Land	8	5	2	8	14	5	33	3	7	77	85	30	0
FRANCIS MARION-SUMTR	SC	National Forest	0	3	1	2	2	0	47	1	15	71	71		
		Total All Land	0	4	1	2	7	0	53	1	17	85	85	14	0
TEXAS	TX	National Forest	1	1	2	9	1	0	27	1	2	43	44		
		Total All Land	1	1	2	9	11	1	30	1	2	57	58	14	0
JEFFERSON	VA	National Forest	2	1	3	3	0	0	7	0	4	18	20		
		Total All Land	2	1	3	3	0	0	8	0	7	22	24	4	0
SAVANNAH RIVER	SC	National Forest	0	0	0	0	0	0	0	0	0	0	0		
		Total All Land	0	0	0	0	0	1	6	0	5	12	12	7	5
REGION 8 TOTAL		**National Forest**	**74**	**51**	**21**	**50**	**27**	**10**	**578**	**5**	**107**	**849**	**923**		
		Total All Land	**80**	**67**	**29**	**53**	**91**	**14**	**734**	**10**	**146**	**1144**	**1224**	**279**	**22**

REGION 9

Number of Wildfires by Statistical Cause

Table 1 1991

National Forest	State		Person - Caused									Total Person - Caused	Total All Causes	Non-NFS Land Under FS Protection	
			Lightning	Equipment	Smoking	Campfire	Debris Burning	Railroad	Arson	Children	Misc			Within	Outside
CHEQUAMEGON	WI	National Forest	1	1	0	1	0	0	0	0	0	2	3		
		Total All Land	1	1	0	1	1	0	0	0	1	4	5	2	0
CHIPPEWA	MN	National Forest	1	0	1	2	0	0	4	0	4	11	12		
		Total All Land	1	7	2	3	20	0	10	5	7	54	55	43	0
HURON-MANISTEE	MI	National Forest	1	1	2	6	0	0	1	1	5	16	17		
		Total All Land	1	1	2	8	5	0	1	2	5	24	25	8	0
MARK TWAIN	MO	National Forest	2	1	1	0	9	0	116	1	16	144	146		
		Total All Land	2	2	1	0	20	1	137	1	24	186	188	41	1
NICOLET	WI	National Forest	0	0	0	0	0	0	1	0	1	2	2		
		Total All Land	0	0	1	1	0	0	1	0	2	5	5	3	0
OTTAWA	MI	National Forest	1	0	0	1	0	0	0	0	1	2	3		
		Total All Land	1	0	0	1	0	0	1	0	1	3	4	0	1
SHAWNEE	IL	National Forest	0	1	0	0	0	0	3	0	0	4	4		
		Total All Land	0	1	0	1	5	0	5	0	2	14	14	8	2
SUPERIOR	MN	National Forest	13	1	2	14	1	3	2	0	2	25	38		
		Total All Land	17	3	3	20	6	7	5	1	4	49	66	28	0
HIAWATHA	MI	National Forest	0	2	1	0	0	0	1	0	0	4	4		
		Total All Land	0	3	1	2	5	0	1	0	0	12	12	8	0
WAYNE-HOOSIER	IN	National Forest	0	0	0	0	0	0	5	0	0	5	5		
		Total All Land	1	0	0	0	0	0	5	0	0	5	6	1	0
	OH	National Forest	0	1	0	0	0	0	12	0	0	13	13		
		Total All Land	0	1	1	0	6	0	24	1	2	35	35	18	4

REGION 9, Cont'd.

Number of Wildfires by Statistical Cause

Table 1 1991

National Forest	State		Lightning	Person - Caused								Total Person - Caused	Total All Causes	Non-NFS Land Under FS Protection	
				Equipment	Smoking	Campfire	Debris Burning	Railroad	Arson	Children	Misc			Within	Outside
ALLEGHENY	PA	National Forest	1	1	0	0	0	0	1	0	3	5	6		
		Total All Land	1	1	0	0	2	0	1	0	3	7	8	2	0
GREEN MOUNTAIN	VT	National Forest	0	0	0	1	0	0	0	0	0	1	1		
		Total All Land	0	0	0	1	0	0	0	0	0	1	1	0	0
MONONGAHELA	WV	National Forest	1	0	0	0	0	0	7	0	6	13	14		
		Total All Land		0	0	0	0	0	10	0	8	18	19	1	4
WHITE MOUNTAIN	NH	National Forest	0	0	0	0	0	0	0	0	2	2	2		
		Total All Land	0	0	0	0	0	0	0	0	4	4	4	0	2
REGION 9 TOTAL		**National Forest**	**21**	**9**	**7**	**25**	**10**	**3**	**153**	**2**	**40**	**249**	**270**		
		Total All Land	**26**	**20**	**11**	**38**	**70**	**8**	**201**	**10**	**63**	**421**	**447**	**163**	**14**

REGION 10

Number of Wildfires by Statistical Cause

Table 1 1991

National Forest	State		Lightning	Person - Caused								Total Person - Caused	Total All Causes	Non-NFS Land Under FS Protection	
				Equipment	Smoking	Campfire	Debris Burning	Railroad	Arson	Children	Misc			Within	Outside
CHATHAM-TONGASS	AK	National Forest	0	0	0	2	0	0	1	0	0	3	3		
		Total All Land	0	0	0	2	0	0	1	0	0	3	3	0	0
CHUGACH	AK	National Forest	0	0	0	6	3	0	0	0	1	10	10		
		Total All Land	0	0	0	6	6	0	0	0	2	14	14	4	0
KETCHIKAN-TONGASS	AK	National Forest	0	1	0	0	2	0	0	0	0	3	3		
		Total All Land	0	1	0	0	2	0	0	0	0	3	3	0	0
REGION 10 TOTAL		**National Forest**	**0**	**1**	**0**	**8**	**5**	**0**	**1**	**0**	**1**	**16**	**16**		
		Total All Land	**0**	**1**	**0**	**8**	**8**	**0**	**1**	**0**	**2**	**20**	**20**	**4**	**0**

ALL REGIONS

ALL REGIONS TOTAL	**National Forest**	**5378**	**261**	**353**	**1360**	**172**	**20**	**959**	**72**	**676**	**3873**	**9251**		
	Total All Land	**5739**	**368**	**401**	**1481**	**413**	**48**	**1281**	**152**	**1000**	**5144**	**10883**	**1451**	**181**

Number of Wildfires by Statistical Cause by State

Table 2

1991

State		Lightning	*Person - Caused*								**Total Person - Caused**	**Total All Causes**	Non-NFS Land Under FS Protection	
			Equipment	Smoking	Campfire	Debris Burning	Railroad	Arson	Children	Misc			Within	Outside
ALABAMA	National Forest	4	2	0	1	2	0	51	0	6	**62**	**66**		
	Total All Land	5	2	0	1	3	0	77	0	7	**90**	**95**	27	2
ALASKA	National Forest	0	1	0	8	5	0	1	0	1	**16**	**16**		
	Total All Land	0	1	0	8	8	0	1	0	2	**20**	**20**	4	0
ARIZONA	National Forest	566	40	66	303	10	0	30	18	84	**551**	**1117**		
	Total All Land	581	45	69	319	15	0	30	23	92	**593**	**1174**	52	5
ARKANSAS	National Forest	25	7	3	5	3	0	43	0	17	**78**	**103**		
	Total All Land	26	8	4	5	10	0	53	1	19	**100**	**126**	15	8
CALIFORNIA	National Forest	1132	64	59	188	48	2	92	20	213	**686**	**1818**		
	Total All Land	1302	120	76	230	96	4	190	66	387	**1169**	**2471**	550	103
COLORADO	National Forest	111	3	12	72	1	1	1	3	23	**116**	**227**		
	Total All Land	123	3	15	78	2	2	1	3	29	**133**	**256**	25	4
FLORIDA	National Forest	19	25	1	6	2	0	24	0	14	**72**	**91**		
	Total All Land	23	38	2	6	7	0	27	0	18	**98**	**121**	30	0
GEORGIA	National Forest	0	1	1	3	1	4	60	0	12	**82**	**82**		
	Total All Land	0	1	1	3	8	4	62	0	18	**97**	**97**	11	4
IDAHO	National Forest	873	17	32	97	13	0	5	3	31	**198**	**1071**		
	Total All Land	919	19	35	107	27	1	9	4	45	**247**	**1166**	92	3
ILLINOIS	National Forest	0	1	0	0	0	0	3	0	0	**4**	**4**		
	Total All Land	0	1	0	1	5	0	5	0	2	**14**	**14**	8	2
INDIANA	National Forest	0	0	0	0	0	0	5	0	0	**5**	**5**		
	Total All Land	1	0	0	0	0	0	5	0	0	**5**	**6**	1	0
KANSAS	National Forest	0	2	0	1	0	0	0	0	3	**6**	**6**		
	Total All Land	0	2	0	1	0	0	0	0	5	**8**	**8**	2	0
KENTUCKY	National Forest	3	1	1	2	3	0	97	0	8	**112**	**115**		
	Total All Land	3	1	2	2	5	0	137	4	13	**164**	**167**	52	0
LOUISIANA	National Forest	1	3	1	1	0	1	28	0	3	**37**	**38**		
	Total All Land	1	3	1	1	1	1	29	0	4	**40**	**41**	3	0
MICHIGAN	National Forest	2	3	3	7	0	0	2	1	6	**22**	**24**		
	Total All Land	2	4	3	11	10	0	3	2	6	**39**	**41**	16	1
MINNESOTA	National Forest	14	1	3	16	1	3	6	0	6	**36**	**50**		
	Total All Land	18	10	5	23	26	7	15	6	11	**103**	**121**	71	0
MISSISSIPPI	National Forest	1	1	3	1	4	2	100	0	12	**123**	**124**		
	Total All Land	1	1	6	3	15	2	121	0	15	**163**	**164**	38	2
MISSOURI	National Forest	2	1	1	0	9	0	116	1	16	**144**	**146**		
	Total All Land	2	2	1	0	20	1	137	1	24	**186**	**188**	41	1
MONTANA	National Forest	426	4	23	102	19	1	1	2	24	**176**	**602**		
	Total All Land	481	15	27	118	51	14	5	7	59	**296**	**777**	165	10
NEBRASKA	National Forest	4	0	0	0	0	0	0	0	0	**0**	**4**		
	Total All Land	5	0	0	0	0	0	0	0	0	**0**	**5**	1	0

Number of Wildfires by Statistical Cause by State, Cont'd.

Table 2

1991

State		Lightning	*Person Caused*								Total Person Caused	Total All Causes	Non-NFS Land Under FS Protection	
			Equipment	Smoking	Campfire	Debris Burning	Railroad	Arson	Children	Misc			Within	Outside
NEVADA	National Forest	98	11	3	36	3	0	9	4	6	**72**	**170**		
	Total All Land	100	11	3	37	3	0	10	4	7	**75**	**175**	4	1
NEW HAMPSHIRE	National Forest	0	0	0	0	0	0	0	0	2	**2**	**2**		
	Total All Land	0	0	0	0	0	0	0	0	4	**4**	**4**	0	2
NEW MEXICO	National Forest	279	5	12	32	2	0	9	3	19	**82**	**361**		
	Total All Land	294	7	17	34	5	0	9	6	24	**102**	**396**	31	4
NORTH CAROLINA	National Forest	8	4	2	7	5	3	20	3	3	**47**	**55**		
	Total All Land	8	5	2	8	14	5	33	3	7	**77**	**85**	30	0
NORTH DAKOTA	National Forest	4	4	0	1	0	0	0	0	0	**5**	**9**		
	Total All Land	4	4	0	1	0	0	0	0	0	**5**	**9**	0	0
OHIO	National Forest	0	1	0	0	0	0	12	0	0	**13**	**13**		
	Total All Land	0	1	1	0	6	0	24	1	2	**35**	**35**	18	4
OKLAHOMA	National Forest	4	2	0	0	3	0	13	0	2	**20**	**24**		
	Total All Land	4	2	0	0	5	0	14	0	2	**23**	**27**	3	0
OREGON	National Forest	1181	27	64	167	13	0	66	6	76	**419**	**1600**		
	Total All Land	1191	29	64	168	13	0	67	7	77	**425**	**1616**	6	10
PENNSYLVANIA	National Forest	1	1	0	0	0	0	1	0	3	**5**	**6**		
	Total All Land	1	1	0	0	2	0	1	0	3	**7**	**8**	2	0
SOUTH CAROLINA	National Forest	0	3	1	2	2	0	47	1	15	**71**	**71**		
	Total All Land	0	4	1	2	7	1	59	1	22	**97**	**97**	21	5
SOUTH DAKOTA	National Forest	83	6	1	11	3	0	1	0	7	**29**	**112**		
	Total All Land	84	6	1	11	3	0	1	0	9	**31**	**115**	3	0
TENNESSEE	National Forest	2	0	0	3	1	0	51	0	8	**63**	**65**		
	Total All Land	2	0	0	3	5	0	72	0	8	**88**	**90**	24	1
TEXAS	National Forest	1	1	2	9	2	0	27	1	2	**44**	**45**		
	Total All Land	1	1	2	9	12	1	30	1	3	**59**	**60**	15	0
UTAH	National Forest	227	2	14	37	5	1	3	1	12	**75**	**302**		
	Total All Land	234	3	15	37	8	2	11	6	16	**98**	**332**	28	2
VERMONT	National Forest	0	0	0	1	0	0	0	0	0	**1**	**1**		
	Total All Land	0	0	0	1	0	0	0	0	0	**1**	**1**	0	0
VIRGINIA	National Forest	6	2	6	10	0	0	17	0	5	**40**	**46**		
	Total All Land	6	2	8	10	0	0	20	0	11	**51**	**57**	11	0
WASHINGTON	National Forest	195	12	37	121	5	2	6	5	17	**205**	**400**		
	Total All Land	207	12	37	130	13	2	6	6	24	**230**	**437**	35	2
WEST VIRGINIA	National Forest	1	0	0	0	0	0	7	0	6	**13**	**14**		
	Total All Land	1	0	0	0	0	0	10	0	8	**18**	**19**	1	4
WISCONSIN	National Forest	1	1	0	1	0	0	1	0	1	**4**	**5**		
	Total All Land	1	1	1	2	1	0	1	0	3	**9**	**10**	5	0
WYOMING	National Forest	104	2	2	109	7	0	4	0	13	**137**	**241**		
	Total All Land	108	3	2	111	7	1	6	0	14	**144**	**252**	10	1

REGION 1

Number of Acres Burned by Statistical Causes (Inside Protection Boundaries)

Table 3

1991

National Forest	State		Lightning	*Person - Caused*								Total All
				Equipment	Smoking	Campfire	Debris Burning	Railroad	Arson	Children	Misc	
BEAVERHEAD	MT	National Forest	32	0	0	5	0	0	0	0	0	**37**
		Total All Land	34	2	0	9	0	0	0	0	0	**45**
BITTERROOT	ID	National Forest	1960	0	1	2	0	0	0	0	0	**1963**
		Total All Land	1960	0	1	2	0	0	0	0	0	**1963**
	MT	National Forest	908	0	0	5	1880	0	0	0	1	**2794**
		Total All Land	983	0	0	5	1880	0	0	0	2	**2870**
IDAHO PANHANDLE	ID	National Forest	9	8	7	33	0	0	0	0	2202	**2259**
		Total All Land	11	8	7	33	15	0	0	0	2303	**2377**
	MT	National Forest	0	0	0	0	0	0	0	0	0	**0**
		Total All Land	0	0	0	0	0	0	0	0	0	**0**
	WA	National Forest	1	0	0	0	265	0	0	0	0	**266**
		Total All Land	1	0	0	0	265	0	0	0	0	**266**
CLEARWATER	ID	National Forest	20	0	0	4	31	0	1	0	16	**72**
		Total All Land	75	0	0	4	45	0	1	0	16	**141**
CUSTER	MT	National Forest	152	0	0	0	15	0	0	0	1748	**1915**
		Total All Land	155	0	0	0	15	0	0	0	3614	**3784**
	ND	National Forest	495	0	0	130	0	0	0	0	0	**625**
		Total All Land	556	0	0	135	0	0	0	0	0	**691**
	SD	National Forest	50	0	0	0	0	0	0	0	0	**50**
		Total All Land	59	0	0	0	0	0	0	0	0	**59**
DEERLODGE	MT	National Forest	40	0	0	1	0	0	0	0	0	**41**
		Total All Land	43	0	15	1	0	0	0	0	0	**59**
FLATHEAD	MT	National Forest	6	0	1	8	294	0	0	0	10	**319**
		Total All Land	6	0	1	8	456	0	0	0	10	**481**
GALLATIN	MT	National Forest	7887	0	2	1	0	0	0	0	1113	**9003**
		Total All Land	7888	0	2	1	0	0	0	0	1115	**9006**
HELENA	MT	National Forest	9	0	0	3	3	0	0	0	0	**15**
		Total All Land	10	0	0	5	3	0	0	0	0	**18**
KOOTENAI	MT	National Forest	15	1	3	227	12985	0	0	0	2	**13233**
		Total All Land	15	2	3	230	12990	2	1	3	6	**13252**
LEWIS AND CLARK	MT	National Forest	688	60	0	46	0	0	0	0	0	**794**
		Total All Land	708	60	0	46	0	0	0	0	0	**814**
LOLO	MT	National Forest	22	0	0	6	6	0	0	0	3	**37**
		Total All Land	26	0	0	9	65	6	1	0	13	**120**
NEZPERCE	ID	National Forest	199	0	0	824	1073	0	0	0	134	**2230**
		Total All Land	200	0	0	824	1073	0	0	0	136	**2233**
REGION 1 TOTAL		**National Forest**	**12493**	**69**	**14**	**1295**	**16552**	**0**	**1**	**0**	**5229**	**35653**
		Total All Land	**12730**	**72**	**29**	**1312**	**16807**	**8**	**3**	**3**	**7215**	**38179**

REGION 2

Number of Acres Burned by Statistical Causes (Inside Protection Boundaries)

Table 3

1991

National Forest	State		Lightning	*Person - Caused*								Total All
				Equipment	Smoking	Campfire	Debris Burning	Railroad	Arson	Children	Misc	
BIGHORN	WY	National Forest	12	0	0	5	930	0	0	0	0	**947**
		Total All Land	12	0	0	5	930	0	0	0	0	**947**
BLACK HILLS	SD	National Forest	2456	1	0	9	1401	0	0	0	4	**3871**
		Total All Land	2977	1	0	9	1510	0	0	0	4	**4501**
	WY	National Forest	11	0	0	0	0	10	0	0	1	**22**
		Total All Land	11	0	0	0	0	1004	1	0	1	**1017**
GRAND MESA-UNC-GUNNS	CO	National Forest	45	0	98	865	0	0	0	0	0	**1008**
		Total All Land	45	0	98	865	0	0	0	0	0	**1008**
MEDICINE BOW	WY	National Forest	602	495	2	4	1	0	3	0	7	**1114**
		Total All Land	602	1401	2	4	5	0	3	0	7	**2024**
NEBRASKA	NE	National Forest	26	0	0	0	0	0	0	0	0	**26**
		Total All Land	26	0	0	0	0	0	0	0	0	**26**
	SD	National Forest	88	15	0	0	0	0	0	0	0	**103**
		Total All Land	236	15	0	0	0	0	0	0	0	**251**
RIO GRANDE	CO	National Forest	0	0	0	0	0	0	0	0	0	**0**
		Total All Land	0	0	0	0	0	0	0	0	0	**0**
ARAPAHO-ROOSEVELT	CO	National Forest	10	0	0	13	0	5	0	0	203	**231**
		Total All Land	10	0	0	13	0	5	0	0	207	**235**
ROUTT	CO	National Forest	1	0	1	1	0	0	0	0	9	**12**
		Total All Land	2	0	1	1	0	0	0	0	9	**13**
PIKE-SAN ISABEL	CO	National Forest	147	0	2	28	0	32	0	0	3	**212**
		Total All Land	192	0	3	28	0	32	0	0	3	**258**
	KS	National Forest	0	6	0	10	0	0	0	0	100	**116**
		Total All Land	0	6	0	10	0	0	0	0	372	**388**
SAN JUAN	CO	National Forest	30	0	88	3	0	0	0	0	1	**122**
		Total All Land	33	0	88	3	0	0	0	0	1	**125**
SHOSHONE	WY	National Forest	10	0	0	1	0	0	0	0	0	**11**
		Total All Land	10	0	0	1	0	0	0	0	0	**11**
WHITE RIVER	CO	National Forest	7	1	80	476	2	0	0	0	25	**591**
		Total All Land	7	1	80	476	2	0	0	0	25	**591**
REGION 2 TOTAL		**National Forest**	**3445**	**518**	**271**	**1415**	**2334**	**47**	**3**	**0**	**353**	**8386**
		Total All Land	**4163**	**1424**	**272**	**1415**	**2447**	**1041**	**4**	**0**	**629**	**11395**

REGION 3

Number of Acres Burned by Statistical Causes (Inside Protection Boundaries)

Table 3

1991

National Forest	State		Lightning	*Person - Caused*								Total All
				Equipment	Smoking	Campfire	Debris Burning	Railroad	Arson	Children	Misc	
APACHE-SITGREAVES	AZ	National Forest	63	0	10	96	8	0	2	3	1	**183**
		Total All Land	63	0	11	96	16	0	2	4	2	**194**
CARSON	NM	National Forest	113	0	0	1	38	0	0	0	665	**817**
		Total All Land	114	0	0	1	43	0	0	0	666	**824**
CIBOLA	NM	National Forest	28	0	0	2	0	0	1	0	621	**652**
		Total All Land	124	0	1	10	0	0	1	1	621	**758**
	OK	National Forest	0	78	0	0	0	0	0	0	0	**78**
		Total All Land	0	78	0	0	0	0	0	0	0	**78**
	TX	National Forest	0	0	0	0	80	0	0	0	400	**480**
		Total All Land	0	0	0	0	80	0	0	0	400	**480**
COCONINO	AZ	National Forest	47	6	13	308	7	0	2	1	461	**845**
		Total All Land	49	6	13	311	7	0	2	1	461	**850**
CORONADO	AZ	National Forest	2433	152	31	121	0	0	1	0	123	**2861**
		Total All Land	2441	252	31	122	0	0	1	0	140	**2987**
GILA	NM	National Forest	1859	0	33	1634	1	0	10	0	222	**3759**
		Total All Land	1872	0	33	1709	1	0	10	0	222	**3847**
KAIBAB	AZ	National Forest	44	0	3	134	0	0	2	1	3	**187**
		Total All Land	44	0	3	135	0	0	2	1	3	**188**
LINCOLN	NM	National Forest	193	0	0	0	29	0	0	0	1	**223**
		Total All Land	195	1	5	2	30	0	0	0	1	**234**
PRESCOTT	AZ	National Forest	16	15	2	23	0	0	25	0	3	**84**
		Total All Land	16	15	3	23	0	0	25	0	3	**85**
SANTA FE	NM	National Forest	1607	1	0	13	0	0	0	3	1	**1625**
		Total All Land	1607	1	0	13	0	0	0	4	1	**1626**
TONTO	AZ	National Forest	34	8	9	4	3	0	3	0	1112	**1173**
		Total All Land	34	8	9	4	11	0	3	0	1112	**1181**
REGION 3 TOTAL		**National Forest**	**6437**	**260**	**101**	**2336**	**166**	**0**	**46**	**8**	**3613**	**12967**
		Total All Land	**6559**	**361**	**109**	**2426**	**188**	**0**	**46**	**11**	**3632**	**13332**

REGION 4

Number of Acres Burned by Statistical Causes (Inside Protection Boundaries)

Table 3

1991

National Forest	State		Lightning	*Person - Caused*								**Total All**
				Equipment	Smoking	Campfire	Debris Burning	Railroad	Arson	Children	Misc	
ASHLEY	UT	National Forest	3	0	5	0	1	0	0	0	0	**9**
		Total All Land	3	0	5	0	1	0	0	0	0	**9**
BOISE	ID	National Forest	496	0	12	2	0	0	1	0	5	**516**
		Total All Land	533	0	13	3	2	0	6	0	7	**564**
BRIDGER-TETON	WY	National Forest	203	0	0	6	6105	0	0	0	274	**6588**
		Total All Land	204	0	0	6	6105	0	0	0	274	**6589**
CARIBOU	ID	National Forest	6	1	0	0	1	0	0	1	0	**9**
		Total All Land	6	1	0	0	1	0	0	1	0	**9**
	UT	National Forest	0	0	0	0	0	0	0	0	0	**0**
		Total All Land	0	0	0	0	0	0	0	0	0	**0**
CHALLIS	ID	National Forest	970	0	0	4	0	0	0	0	0	**974**
		Total All Land	970	0	0	4	0	0	0	0	0	**974**
DIXIE	UT	National Forest	40	0	6	2	71	0	0	0	40	**159**
		Total All Land	42	0	13	2	71	0	0	0	40	**168**
FISHLAKE	UT	National Forest	53	0	0	0	0	0	0	0	0	**53**
		Total All Land	53	0	0	0	0	0	0	0	0	**53**
HUMBOLDT	NV	National Forest	516	2160	0	0	1	0	600	0	0	**3277**
		Total All Land	2216	2160	0	0	1	0	600	0	0	**4977**
MANTI-LASAL	CO	National Forest	16	0	0	0	0	0	0	0	0	**16**
		Total All Land	16	0	0	0	0	0	0	0	0	**16**
	UT	National Forest	10	0	6	0	0	0	0	0	0	**16**
		Total All Land	10	0	6	0	0	0	0	0	0	**16**
PAYETTE	ID	National Forest	371	0	0	8490	0	0	0	0	320	**9181**
		Total All Land	379	0	0	8491	0	0	0	0	324	**9194**
SALMON	ID	National Forest	6925	0	0	9	128	0	0	0	120	**7182**
		Total All Land	6925	0	0	9	128	0	0	0	120	**7182**
SAWTOOTH	ID	National Forest	198	2	1	5	0	0	0	0	0	**206**
		Total All Land	199	2	1	5	0	0	0	0	0	**207**
TARGHEE	ID	National Forest	6	1	0	6	6	0	0	0	1	**20**
		Total All Land	6	1	0	6	6	0	0	0	1	**20**
	WY	National Forest	2	0	0	0	0	0	0	0	0	**2**
		Total All Land	2	0	0	0	0	0	0	0	0	**2**
TOIYABE	CA	National Forest	44	0	2	2	0	0	0	7	0	**55**
		Total All Land	45	2	2	2	0	0	0	7	1	**59**
	NV	National Forest	23	1	0	259	0	0	1	0	5	**289**
		Total All Land	30	1	0	259	0	0	1	0	5	**296**

REGION 4, Cont'd.

Number of Acres Burned by Statistical Causes (Inside Protection Boundaries) — **Table 3**

1991

National Forest	State		Lightning	*Person - Caused*								Total All
				Equipment	Smoking	Campfire	Debris Burning	Railroad	Arson	Children	Misc	
UINTA	UT	National Forest	13	0	0	1	0	0	0	0	19	**33**
		Total All Land	14	0	0	1	0	0	5	7	24	**51**
WASATCH	UT	National Forest	303	0	0	21	0	207	0	0	17	**548**
		Total All Land	303	0	0	21	0	334	0	0	21	**679**
REGION 4 TOTAL		**National Forest**	**10198**	**2165**	**32**	**8807**	**6313**	**207**	**602**	**8**	**801**	**29133**
		Total All Land	**11956**	**2167**	**40**	**8809**	**6315**	**334**	**612**	**15**	**817**	**31065**

REGION 5

Number of Acres Burned by Statistical Causes (Inside Protection Boundaries) — **Table 3**

1991

National Forest	State		Lightning	*Person - Caused*								Total All
				Equipment	Smoking	Campfire	Debris Burning	Railroad	Arson	Children	Misc	
ANGELES	CA	National Forest	10	2	0	18	0	0	102	0	156	**288**
		Total All Land	10	3	0	18	0	0	103	0	202	**336**
CLEVELAND	CA	National Forest	0	0	0	1	0	0	8	0	25	**34**
		Total All Land	1	0	0	1	1	0	11	0	25	**39**
ELDORADO	CA	National Forest	164	0	0	6	44	0	0	0	1	**215**
		Total All Land	164	0	0	6	50	0	0	0	1	**221**
INYO	CA	National Forest	54	1	0	2	0	0	0	0	1	**58**
		Total All Land	54	1	0	2	0	0	0	0	1	**58**
KLAMATH	CA	National Forest	180	0	1	2	130	0	2	0	1	**316**
		Total All Land	202	1	1	2	243	0	2	2	14	**467**
	OR	National Forest	0	0	0	0	0	0	0	0	0	**0**
		Total All Land	0	0	0	0	0	0	0	0	0	**0**
LASSEN	CA	National Forest	15	0	2	1	0	0	1	0	1	**20**
		Total All Land	18	2	2	1	1	0	1	0	1	**26**
LOS PADRES	CA	National Forest	52	0	0	1918	0	0	2	0	11	**1983**
		Total All Land	58	1	0	1918	0	0	2	0	11	**1990**
MENDOCINO	CA	National Forest	3	0	0	0	281	0	0	0	51	**335**
		Total All Land	3	0	0	0	441	0	1	0	81	**526**
MODOC	CA	National Forest	308	105	1	2	0	0	0	0	1	**417**
		Total All Land	308	105	1	2	1	0	0	0	1	**418**
SIX RIVERS	CA	National Forest	23	0	0	0	0	0	41	0	12	**76**
		Total All Land	48	0	1	0	2	0	50	0	13	**114**
PLUMAS	CA	National Forest	22	0	1	1	50	0	2	0	231	**307**
		Total All Land	29	16	1	2	73	1	2	1	238	**363**

REGION 5, Cont'd.

Number of Acres Burned by Statistical Causes (Inside Protection Boundaries)

Table 3
1991

National Forest	State		Lightning	*Person - Caused*								Total All
				Equipment	Smoking	Campfire	Debris Burning	Railroad	Arson	Children	Misc	
SAN BERNARDINO	CA	National Forest	13	453	0	1434	0	0	238	0	160	**2298**
		Total All Land	14	457	0	1434	0	0	244	3	182	**2334**
SEQUOIA	CA	National Forest	122	0	1	2	2	0	60	0	4	**191**
		Total All Land	129	0	1	2	2	0	80	0	6	**220**
SHASTA-TRINITY	CA	National Forest	562	1	81	2	201	0	415	0	1204	**2466**
		Total All Land	569	3	186	4	266	0	429	1	1307	**2765**
SIERRA	CA	National Forest	37	3	1	9	9	0	0	0	4	**63**
		Total All Land	37	4	1	9	11	0	0	7	6	**75**
STANISLAUS	CA	National Forest	6	1	1	5	102	0	1	0	3	**119**
		Total All Land	7	26	4	5	102	0	1	2	4	**151**
TAHOE	CA	National Forest	15	0	1	1	1	0	1	0	3	**22**
		Total All Land	18	0	1	2	2	0	2	0	4	**29**
LAKE TAHOE BASIN	CA	National Forest	1	0	1	1	0	0	2	1	0	**6**
		Total All Land	1	0	1	1	0	0	2	1	1	**7**
	NV	National Forest	0	0	0	0	0	0	0	0	0	**0**
		Total All Land	0	0	0	0	0	0	0	0	0	**0**
REGION 5 TOTAL		**National Forest**	**1587**	**566**	**91**	**3405**	**820**	**0**	**875**	**1**	**1869**	**9214**
		Total All Land	**1670**	**619**	**200**	**3409**	**1195**	**1**	**930**	**17**	**2098**	**10139**

REGION 6

Number of Acres Burned by Statistical Causes (Inside Protection Boundaries)

Table 3
1991

National Forest	State		Lightning	*Person - Caused*								Total All
				Equipment	Smoking	Campfire	Debris Burning	Railroad	Arson	Children	Misc	
DESCHUTES	OR	National Forest	265	1	2	2	0	0	181	0	913	**1364**
		Total All Land	265	1	2	2	0	0	306	0	993	**1569**
FREMONT	OR	National Forest	141	0	1	0	0	0	13	0	2	**157**
		Total All Land	141	0	1	0	0	0	13	0	2	**157**
GIFFORD PINCHOT	WA	National Forest	3	1	1	1	0	0	1	0	0	**7**
		Total All Land	3	1	1	1	0	0	1	0	0	**7**
MALHEUR	OR	National Forest	77	3	1	8	0	0	0	0	3	**92**
		Total All Land	77	3	1	8	0	0	0	0	3	**92**
MT. BAKER-SNOQUALMIE	WA	National Forest	2	416	5	4	0	0	0	1	89	**517**
		Total All Land	2	416	5	4	0	0	0	1	89	**517**
MT. HOOD	OR	National Forest	5	1	1091	9	0	0	181	0	234	**1521**
		Total All Land	5	2	1341	9	0	0	181	0	234	**1772**

REGION 6, Cont'd.

Number of Acres Burned by Statistical Causes (Inside Protection Boundaries)

Table 3

1991

National Forest	State		Lightning	*Person - Caused*								Total All
				Equipment	Smoking	Campfire	Debris Burning	Railroad	Arson	Children	Misc	
OCHOCO	OR	National Forest	44	268	0	2	0	0	7	0	0	**321**
		Total All Land	44	268	0	2	0	0	7	0	0	**321**
OKANOGAN	WA	National Forest	21	0	0	165	4	0	0	0	1	**191**
		Total All Land	39	0	0	170	101	0	0	5	113	**428**
OLYMPIC	OR	National Forest	0	0	0	0	0	0	0	0	0	**0**
		Total All Land	0	0	0	0	0	0	0	0	0	**0**
ROGUE RIVER	CA	National Forest	1	0	0	0	0	0	0	0	0	**1**
		Total All Land	1	0	0	0	0	0	0	0	0	**1**
	OR	National Forest	13	0	0	0	0	0	0	0	0	**13**
		Total All Land	13	0	0	0	0	0	0	0	0	**13**
SISKIYOU	CA	National Forest	18	0	0	0	0	0	0	0	0	**18**
		Total All Land	18	0	0	0	0	0	0	0	0	**18**
	OR	National Forest	18	0	0	7	0	0	0	0	7	**32**
		Total All Land	18	0	0	7	0	0	0	0	7	**32**
SIUSLAW	OR	National Forest	0	0	0	17	0	0	0	0	0	**17**
		Total All Land	0	0	0	22	0	0	0	0	0	**22**
UMATILLA	OR	National Forest	45	0	0	1	19	0	0	0	0	**65**
		Total All Land	45	0	0	1	19	0	0	0	0	**65**
	WA	National Forest	4	0	0	4	5	0	0	0	0	**13**
		Total All Land	4	0	0	4	5	0	0	0	0	**13**
UMPQUA	OR	National Forest	26	1	0	0	0	0	0	0	4	**31**
		Total All Land	26	1	0	0	0	0	0	0	4	**31**
WALLOWA-WHITMAN	ID	National Forest	1	0	0	0	0	0	0	0	0	**1**
		Total All Land	1	0	0	0	0	0	0	0	0	**1**
	OR	National Forest	827	3	1	10	1	0	0	0	19	**861**
		Total All Land	827	3	1	10	1	0	0	0	19	**861**
WENATCHEE	WA	National Forest	104	3	4	877	27	1	0	0	4	**1020**
		Total All Land	104	3	4	922	40	1	0	0	4	**1078**
WILLAMETTE	OR	National Forest	18	0	1	2	0	0	0	0	9207	**9228**
		Total All Land	18	0	1	2	0	0	0	0	9207	**9228**
WINEMA	OR	National Forest	55	0	0	2	1	0	295	0	3	**356**
		Total All Land	55	0	0	2	1	0	295	0	3	**356**
COLVILLE	OR	National Forest	0	0	0	0	0	0	0	0	0	**0**
		Total All Land	0	0	0	0	0	0	0	0	0	**0**
	WA	National Forest	10	8	0	1	0	0	0	0	0	**19**
		Total All Land	10	8	0	1	0	0	0	0	0	**19**
REGION 6 TOTAL		**National Forest**	**1698**	**705**	**1107**	**1112**	**57**	**1**	**678**	**1**	**10486**	**15845**
		Total All Land	**1716**	**706**	**1357**	**1167**	**167**	**1**	**803**	**6**	**10678**	**16601**

REGION 8

Number of Acres Burned by Statistical Causes (Inside Protection Boundaries)

Table 3

1991

National Forest	State		Lightning	*Person - Caused*								Total All
				Equipment	Smoking	Campfire	Debris Burning	Railroad	Arson	Children	Misc	
ALABAMA	AL	National Forest	6	11	0	10	1	0	502	0	88	**618**
		Total All Land	6	11	0	10	3	0	629	0	96	**755**
DANIEL BOONE	KY	National Forest	125	0	1	0	19	0	5327	9	71	**5552**
		Total All Land	125	0	4	0	154	0	10417	18	82	**10800**
	TN	National Forest	0	0	0	0	0	0	0	0	0	**0**
		Total All Land	0	0	0	0	0	0	0	0	0	**0**
CHATTAHOOCHEE-OCONEE	GA	National Forest	0	1	1	19	8	44	416	0	289	**778**
		Total All Land	0	1	1	19	75	44	433	0	316	**889**
CHEROKEE	TN	National Forest	0	0	0	0	11	0	3164	0	115	**3290**
		Total All Land	0	0	0	0	27	0	3868	0	135	**4030**
FLORIDA	FL	National Forest	1520	9	45	22	38	0	398	0	226	**2258**
		Total All Land	1520	9	45	22	51	0	410	0	267	**2324**
KISATCHIE	LA	National Forest	10	91	5	63	8	15	310	0	9	**511**
		Total All Land	10	91	5	63	13	15	352	0	9	**558**
MISSISSIPPI	MS	National Forest	0	3	19	3	42	24	2046	0	1964	**4101**
		Total All Land	0	3	22	23	176	25	2363	0	1994	**4606**
GEORGE WASHINGTON	VA	National Forest	48	3	1436	2	0	0	113	0	29	**1631**
		Total All Land	48	3	1443	2	0	0	115	0	54	**1665**
QUACHITA	AR	National Forest	112	139	8	0	7	0	272	0	86	**624**
		Total All Land	113	139	10	1	28	0	294	0	89	**674**
	OK	National Forest	28	2	0	0	62	0	335	0	2	**429**
		Total All Land	28	2	0	0	127	0	728	0	2	**887**
OZARK-ST FRANCIS	AR	National Forest	3	3	0	89	23	0	346	0	62	**526**
		Total All Land	181	4	0	89	54	0	405	3	65	**801**
NORTH CAROLINA	NC	National Forest	154	10	2	90	102	4	298	4	18	**682**
		Total All Land	159	13	2	93	426	23	343	4	90	**1153**
FRANCIS MARION-SUMTR	SC	National Forest	0	1	4	105	203	0	194	6	1553	**2066**
		Total All Land	0	3	4	105	301	0	218	6	1759	**2396**
TEXAS	TX	National Forest	0	25	0	8	18	0	456	20	6	**533**
		Total All Land	0	39	0	12	45	0	489	20	7	**612**
JEFFERSON	VA	National Forest	1	4	108	2	0	0	41	0	91	**247**
		Total All Land	1	4	108	2	0	0	131	0	116	**362**
SAVANNAH RIVER	SC	National Forest	0	0	0	0	0	0	0	0	0	**0**
		Total All Land	0	0	0	0	0	0	1	0	2	**3**
REGION 8 TOTAL		**National Forest**	**2007**	**302**	**1629**	**413**	**542**	**87**	**14218**	**39**	**4609**	**23846**
		Total All Land	**2191**	**322**	**1644**	**441**	**1480**	**107**	**21196**	**51**	**5083**	**32515**

REGION 9

Number of Acres Burned by Statistical Causes (Inside Protection Boundaries)

Table 3

1991

National Forest	State		Lightning	*Person - Caused*								Total All
				Equipment	Smoking	Campfire	Debris Burning	Railroad	Arson	Children	Misc	
CHEQUAMEGON	WI	National Forest	0	0	0	0	0	0	0	0	0	**0**
		Total All Land	0	0	0	0	0	0	0	0	0	**0**
CHIPPEWA	MN	National Forest	0	0	1	2	5	0	5	0	11	**24**
		Total All Land	0	17	1	4	105	0	28	3	17	**175**
HURON-MANISTEE	MI	National Forest	0	2	110	123	7	0	5	4	7	**258**
		Total All Land	0	2	118	150	15	0	5	5	8	**303**
MARK TWAIN	MO	National Forest	28	8	20	0	698	0	3397	113	2181	**6445**
		Total All Land	35	18	20	0	948	16	3667	284	3048	**8036**
NICOLET	WI	National Forest	0	0	0	3	0	0	1	0	1	**5**
		Total All Land	0	0	3	25	0	0	1	0	1	**30**
OTTAWA	MI	National Forest	2	0	0	0	0	0	1	0	0	**3**
		Total All Land	2	0	0	0	0	0	1	0	0	**3**
SHAWNEE	IL	National Forest	0	5	0	2	0	0	50	0	0	**57**
		Total All Land	0	5	0	2	49	0	93	0	39	**188**
SUPERIOR	MN	National Forest	64	0	1	16	9	161	3	0	2	**256**
		Total All Land	86	10	1	59	17	465	17	15	4	**674**
HIAWATHA	MI	National Forest	0	20	1	0	0	0	0	0	0	**21**
		Total All Land	0	20	1	2	4	0	0	0	0	**27**
WAYNE-HOOSIER	IN	National Forest	0	0	0	0	0	0	52	0	0	**52**
		Total All Land	0	0	0	0	0	0	59	0	0	**59**
	OH	National Forest	0	35	196	0	5	0	44	0	0	**280**
		Total All Land	0	35	343	0	23	0	108	2	8	**519**
ALLEGHENY	PA	National Forest	2	1	0	0	0	0	1	0	41	**45**
		Total All Land	2	1	0	0	15	0	1	0	41	**60**
GREEN MOUNTAIN	VT	National Forest	0	0	0	8	0	0	0	0	0	**8**
		Total All Land	0	0	0	8	0	0	0	0	0	**8**
MONONGAHELA	WV	National Forest	63	0	0	0	0	0	94	0	21	**178**
		Total All Land	63	0	0	0	0	0	108	0	21	**192**
WHITE MOUNTAIN	NH	National Forest	0	0	0	0	0	0	0	0	24	**24**
		Total All Land	0	0	0	0	0	0	0	0	24	**24**
REGION 9 TOTAL		**National Forest**	**159**	**71**	**329**	**154**	**724**	**161**	**3653**	**117**	**2288**	**7656**
		Total All Land	**188**	**108**	**487**	**250**	**1176**	**481**	**4088**	**309**	**3211**	**10298**

REGION 10

Number of Acres Burned by Statistical Causes (Inside Protection Boundaries)

Table 3

1991

National Forest	State		Lightning	*Person - Caused*								**Total All**
				Equipment	Smoking	Campfire	Debris Burning	Railroad	Arson	Children	Misc	
CHATHAM-TONGASS	AK	National Forest	0	0	0	0	0	0	0	0	0	**0**
		Total All Land	0	0	0	0	0	0	0	0	0	**0**
CHUGACH	AK	National Forest	0	0	0	12	1	0	0	0	0	**13**
		Total All Land	0	0	0	12	4	0	0	0	0	**16**
KETCHIKAN-TONGASS	AK	National Forest	0	0	0	0	0	0	0	0	0	**0**
		Total All Land	0	0	0	0	0	0	0	0	0	**0**
REGION 10 TOTAL		**National Forest**	**0**	**0**	**0**	**12**	**1**	**0**	**0**	**0**	**0**	**13**
		Total All Land	**0**	**0**	**0**	**12**	**4**	**0**	**0**	**0**	**0**	**16**

ALL REGIONS

ALL REGIONS TOTAL	**National Forest**	**38024**	**4656**	**3574**	**18949**	**27509**	**503**	**20076**	**174**	**29248**	**142713**
	Total All Land	**41173**	**5779**	**4138**	**19241**	**29779**	**1973**	**27682**	**412**	**33363**	**163540**

Number of Wildfires and Acres Burned by Major Causes and Size Classes

Table 4
1991

REGION	Cause	Class A		Class B		Class C		Class D		Class E		Class F		Class G		Total	
		No.	Acres	No.	Acres	No.	Acres	No.	Acres	No.	Acres	No.	Acres	No.	Acres	**No.**	**Acres**
REGION 1	Lightning	638	71	248	291	33	974	1	150	4	1996	1	1500	1	7746	**926**	**12728**
	Person - Caused	268	29	103	141	14	334	6	979	5	2573	6	13526	1	7869	**403**	**25451**
	All Fires	906	100	351	432	47	1308	7	1129	9	4569	7	15026	2	15615	**1329**	**38179**
REGION 2	Lightning	153	16	100	167	9	272	2	338	3	450	1	2920	0	0	**268**	**4163**
	Person - Caused	171	18	55	79	16	595	6	1247	3	1715	3	3580	0	0	**254**	**7234**
	All Fires	324	34	155	247	25	867	8	1585	6	2165	4	6500	0	0	**522**	**11398**
REGION 3	Lightning	555	62	290	361	24	601	1	180	3	1507	2	3846	0	0	**875**	**6557**
	Person - Caused	460	52	201	262	24	852	5	713	5	2192	3	2700	0	0	**698**	**6771**
	All Fires	1015	114	491	623	48	1453	6	893	8	3699	5	6546	0	0	**1573**	**13328**
REGION 4	Lightning	713	76	193	264	20	485	5	944	2	1256	3	8730	1	200	**937**	**11955**
	Person - Caused	285	31	92	159	14	435	2	396	4	1046	2	2600	2	14444	**401**	**19111**
	All Fires	998	107	285	423	34	920	7	1340	6	2302	5	11330	3	14644	**1338**	**31066**
REGION 5	Lightning	1003	110	216	233	6	209	4	681	1	435	0	0	0	0	**1230**	**1668**
	Person - Caused	855	83	240	281	34	874	13	1431	4	1176	3	4625	0	0	**1149**	**8470**
	All Fires	1858	193	456	513	40	1083	17	2112	5	1611	3	4625	0	0	**2379**	**10137**
REGION 6	Lightning	1117	123	255	279	17	319	7	874	1	120	0	0	0	0	**1397**	**1715**
	Person - Caused	504	55	121	194	17	588	4	931	6	2777	1	1140	1	9200	**654**	**14885**
	All Fires	1621	178	376	473	34	907	11	1805	7	2897	1	1140	1	9200	**2051**	**16600**
REGION 8	Lightning	23	3	33	70	21	560	2	378	0	0	1	1180	0	0	**80**	**2191**
	Person - Caused	253	30	572	1590	267	8045	31	5108	14	7086	7	8462	0	0	**1144**	**30321**
	All Fires	276	33	605	1660	288	8605	33	5486	14	7086	8	9642	0	0	**1224**	**32512**
REGION 9	Lightning	13	2	9	21	4	166	0	0	0	0	0	0	0	0	**26**	**189**
	Person - Caused	80	11	223	588	98	3051	14	2305	4	1446	2	2704	0	0	**421**	**10105**
	All Fires	93	12	232	609	102	3217	14	2305	4	1446	2	2704	0	0	**447**	**10293**
REGION 10	Lightning	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**
	Person - Caused	15	2	4	3	1	11	0	0	0	0	0	0	0	0	**20**	**16**
	All Fires	15	2	4	3	1	11	0	0	0	0	0	0	0	0	**20**	**16**
ALL REGIONS																	
Lightning		4215	463	1344	1686	134	3585	22	3545	14	5764	8	18176	2	7946	**5739**	**41165**
Person - Caused		2891	309	1611	3297	485	14785	81	13111	45	20011	27	39337	4	31513	**5144**	**122363**
All Fires		7106	772	2955	4983	619	18371	103	16656	59	25775	35	57513	6	39459	**10883**	**163540**